

October 12, 2022

Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

Kate Brown

Shemia Fagan

Governor

Robert Evans Company Attn: Ryan Sanchez, Vice President of Development 1927 NW Pettygrove Street Portland, OR 97209

Re: WD # 2022-0166 **Approved** Wetland Delineation Report for Sherwood Industrial Park Phase 3 Washington County; T2S R1W S29D TLs 151 and 150 (Portion) RGL # 1758, Sherwood Local Wetlands Inventory, R-3, R-5, and R-6

Dear Ryan Sanchez:

The Department of State Lands has reviewed the wetland delineation report prepared by Pacific Habitat Services for the site referenced above. Please note that the study area includes only a portion of the parcels described above (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 6, 6A through 6G of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study area, 3 wetlands (Wetland A, B, and Wetland Ditch, totaling approximately 7.78 acres), Rock Creek, and a portion of a compensatory wetland mitigation (CWM) area (RGL 1758, totaling approximately 9.79 acres) were identified. The wetlands, creek, and CWM area are all subject to the permit requirements of the state Removal-Fill Law. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, Rock Creek is an essential salmonid stream. Therefore, fill or removal of any amount of material below the creek's OHWL or within hydrologically connected wetlands (Wetland A) may require a state permit. In addition, any amount of fill or removal within a CWM area may require a permit and higher mitigation ratios.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal, other state agencies or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact Chris Stevenson, PWS, the Jurisdiction Coordinator for Washington County at 503-986-5246.

Sincerely,

Br Ryan

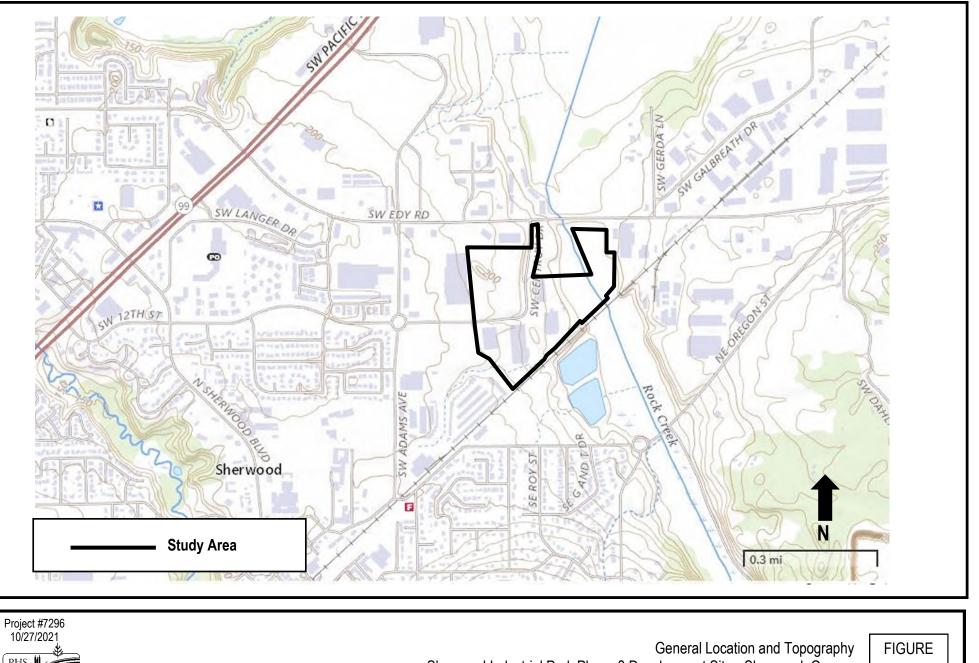
Peter Ryan, SPWS Aquatic Resource Specialist

Enclosures

ec: Carlee Michelson, Pacific Habitat Services City of Sherwood Planning Department Trey Fraley, Corps of Engineers Michael De Blasi, DSL Lindsey Obermiller, Clean Water Services

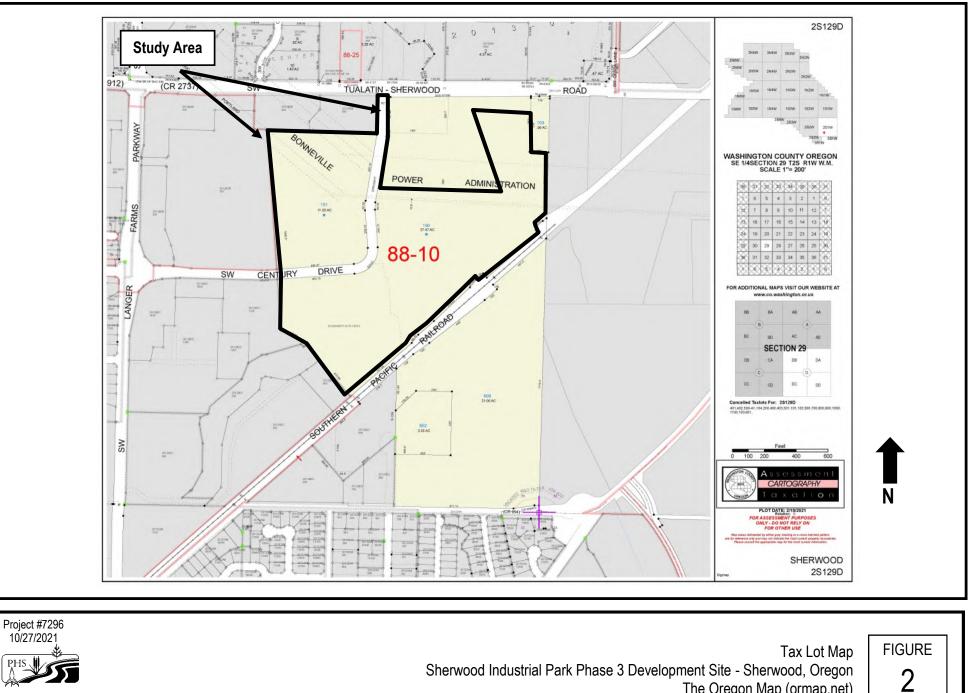
WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

| | iew fee, are required before a report review timeline can be initiated by the |
|---|---|
| Department of State Lands. All applicants will receive an emailed confirma Ways to submit report: | ation that includes the report's unique file number and other information. Ways to pay review fee: |
| Under 50MB - A single unlocked PDF can be emailed to: | By credit card on DSL's epayment portal after receiving |
| wetland.delineation@dsl.oregon.gov. | the unique file number from DSL's emailed confirmation. |
| * 50MB or larger - A single unlocked PDF can be uploaded to DSL's E | |
| After upload notify DSL by email at: wetland.delineation@dsl.oregon. OR a hard copy of the unbound report and signed cover form can be | |
| Department of State Lands, 775 Summer Street NE, Suite 100, Saler | |
| Contact and Authorization Information | |
| Applicant D Owner Name, Firm and Address: | Business phone # (503) 648-7085 |
| Ryan Suarez, Vice President of Development | Mobile phone # (optional) |
| Robert Evans Company 1922 NW Pettygrove Street | E-mail: ryans@robertevansco.com |
| Portland, OR 97209 | |
| Authorized Legal Agent, Name and Address (if different |): Business phone # |
| | Mobile phone # (optional) |
| | E-mail: |
| | |
| | |
| | y to allow access to the property. I authorize the Department to access the |
| property for the purpose of confirming the information in the repo | Dparay layers by Ryan Buance |
| Typed/Printed Name: Ryan Suarez | oignature. |
| Date: 03/16/2022 Special instructions regarding s | |
| Project and Site Information | Latitude: 45.3666 Longitude: -122.8292 |
| Project Name: Sherwood Industrial Park Phase 3 Delineation | Latitude: 45.3666 Longitude: -122.8292 decimal degree - centroid of site or start & end points of linear project |
| Proposed Use: | Tax Map #2S129D |
| Development | Tax Lot(s) 150 & 151 |
| | Tax Map # |
| Draiget Street Address (or other descriptive leastion): | |
| Project Street Address (or other descriptive location): | Tax Lot(s) |
| SW Century Drive at SW Tualatin-Sherwood Hwy | Township 2S Range 1W Section 29D QQ |
| City: Sherwood County: Washington | Use separate sheet for additional tax and location information Waterway: River Mile: |
| City: Sherwood County: Washington Wetland Delineation Information | Waterway: River Mile: |
| Wetland Consultant Name, Firm and Address: | Phone # (503) 570-0800 |
| | Mobile phone # (if applicable) |
| Carlee Michelson Pacific Habitat Services, Inc. | E-mail: cm@pacifichabitat.com |
| 9450 SW Commerce Circle, Ste 180 | |
| Wilsonville, OR 97070 | |
| The information and conclusions on this form and in the attached | |
| Consultant Signature: Cartullchili | Date: 03/14/2022 |
| Primary Contact for report review and site access is | |
| | Total Waters Acreage: 0.5000 |
| Check Applicable Boxes Below | |
| R-F permit application submitted | Fee payment submitted \$ |
| Mitigation bank site | Resubmittal of rejected report (\$100) |
| EFSC/ODOE Proj. Mgr: | Request for Reissuance. See eligibility criteria. (no fee) |
| Wetland restoration/enhancement project | DSL # Expiration date |
| (not mitigation) | VI WI shows watlands as waters an narral |
| If known, previous DSL # WD19-0535 | LWI shows wetlands or waters on parcel Wetland ID code R-3, R-5, R-6 |
| | ffice Use Only |
| DSL Reviewer: CS Fee Paid Date: | |
| | |
| Date Delineation Received: 03/ 17/ 2022 | DSL App.# |



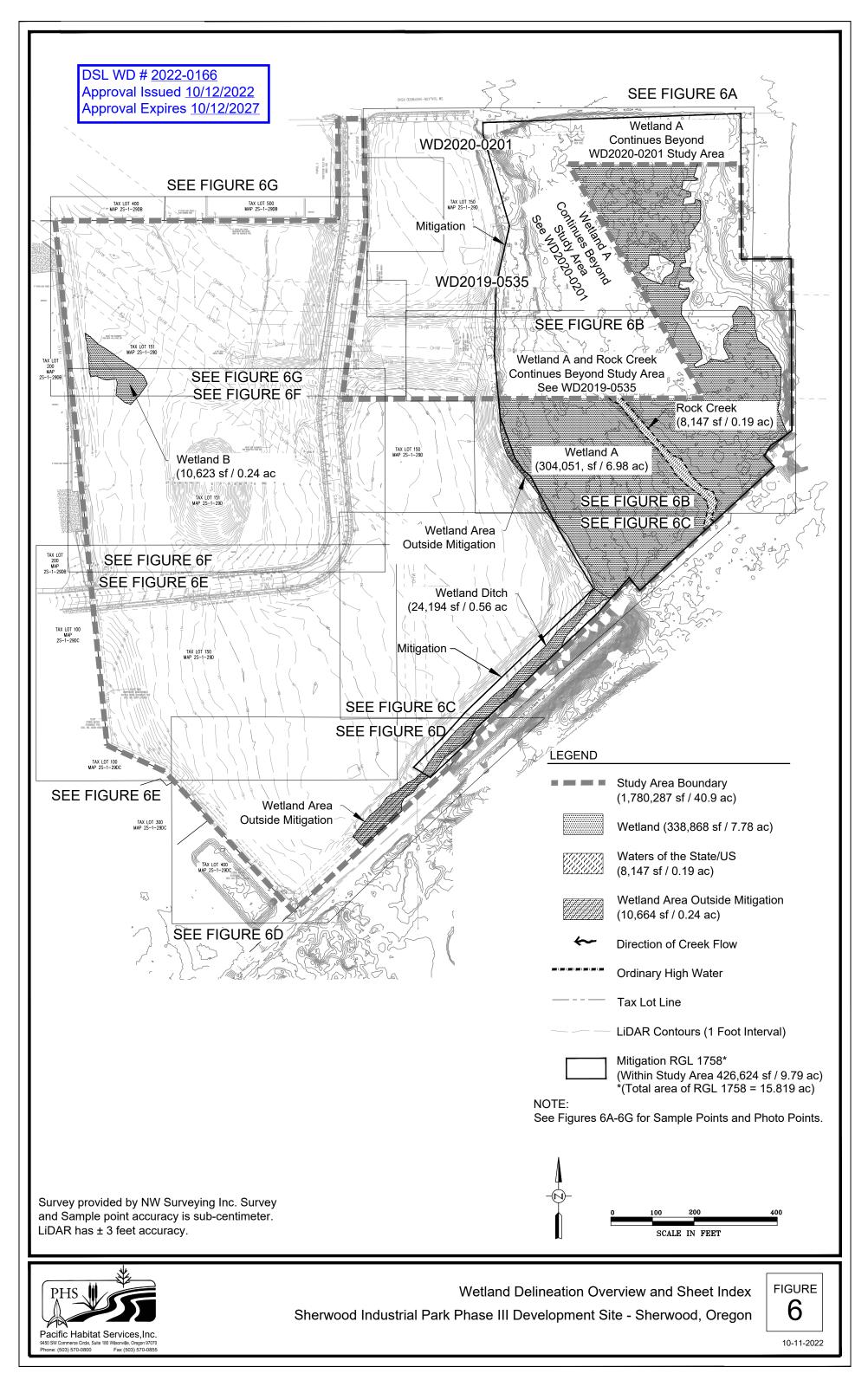
Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Sherwood Industrial Park Phase 3 Development Site - Sherwood, Oregon United States Geological Survey (USGS) Sherwood, Oregon 7.5 quadrangle, 2022 (viewer.nationalmap.gov/basic)

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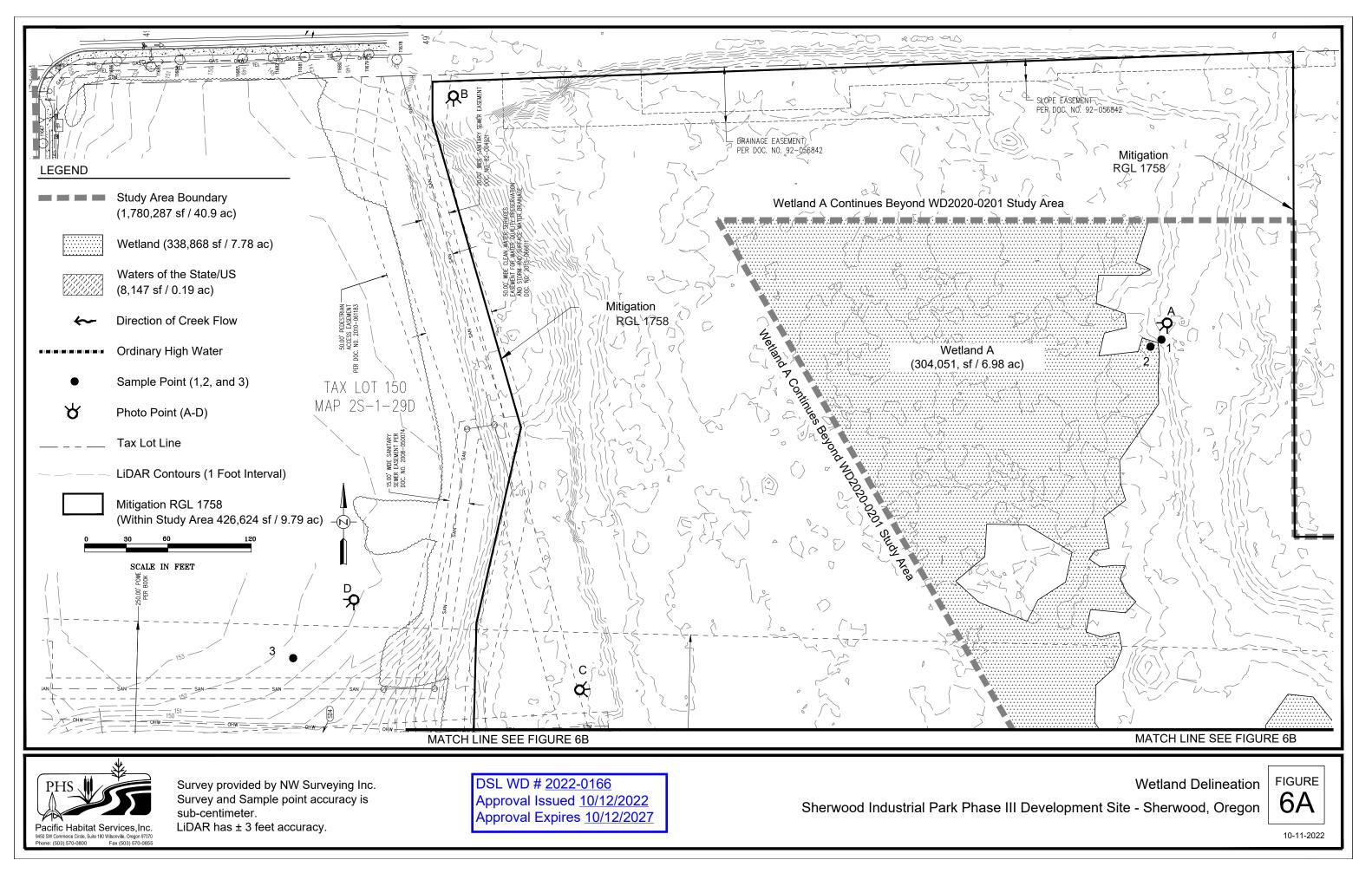


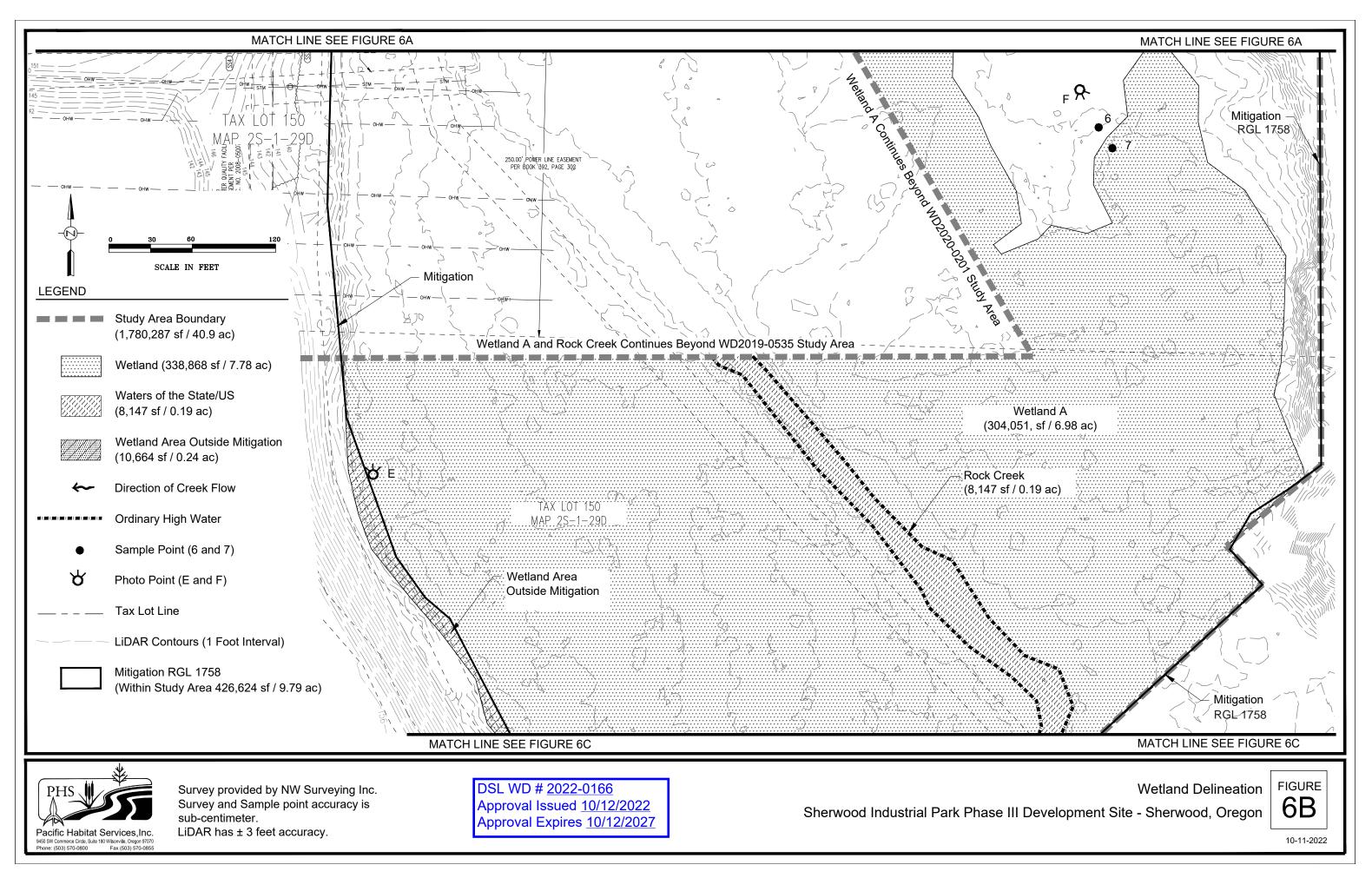
Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

The Oregon Map (ormap.net)

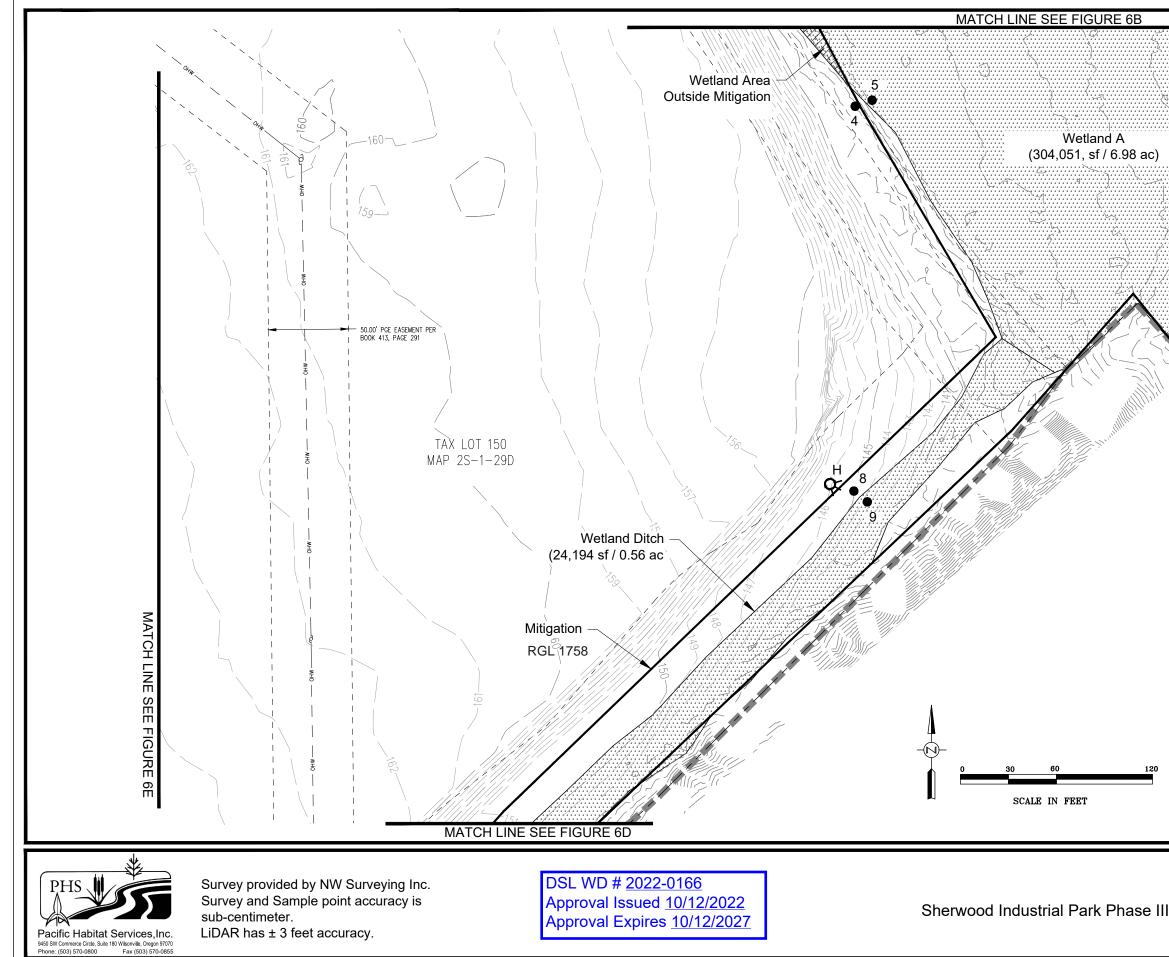


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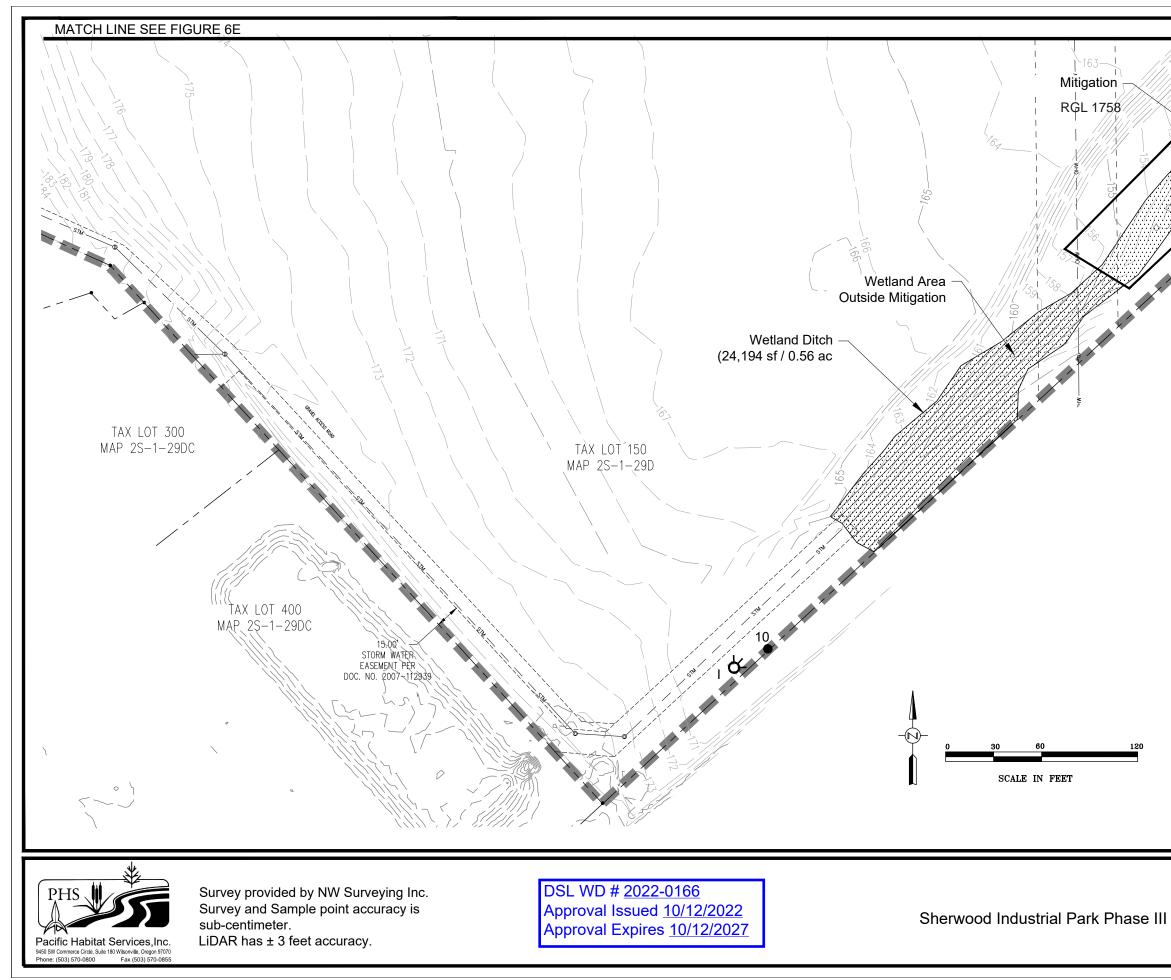
| Rock Cre (8,147 sf / 0.19 | ek |
|------------------------------|--|
| G G LEGEND | |
| | Study Area Boundary (1,780,287 sf / 40.9 ac) |
| | Wetland (338,868 sf / 7.78 ac) |
| | Waters of the State/US (8,147 sf / 0.19 ac) |
| | Wetland Area Outside Mitigation (10,664 sf / 0.24 ac) |
| *~ | Direction of Creek Flow |
| | Ordinary High Water |
| ٠ | Sample Point (4,5,8 and 9) |
| ላ | Photo Point (G and H) |
| | Tax Lot Line |
| | LiDAR Contours (1 Foot Interval) |
| | Mitigation RGL 1758 |

Wetland Delineation

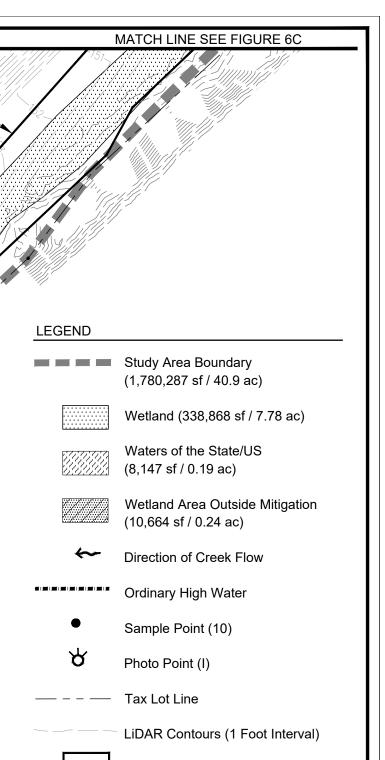
Sherwood Industrial Park Phase III Development Site - Sherwood, Oregon



10-11-2022



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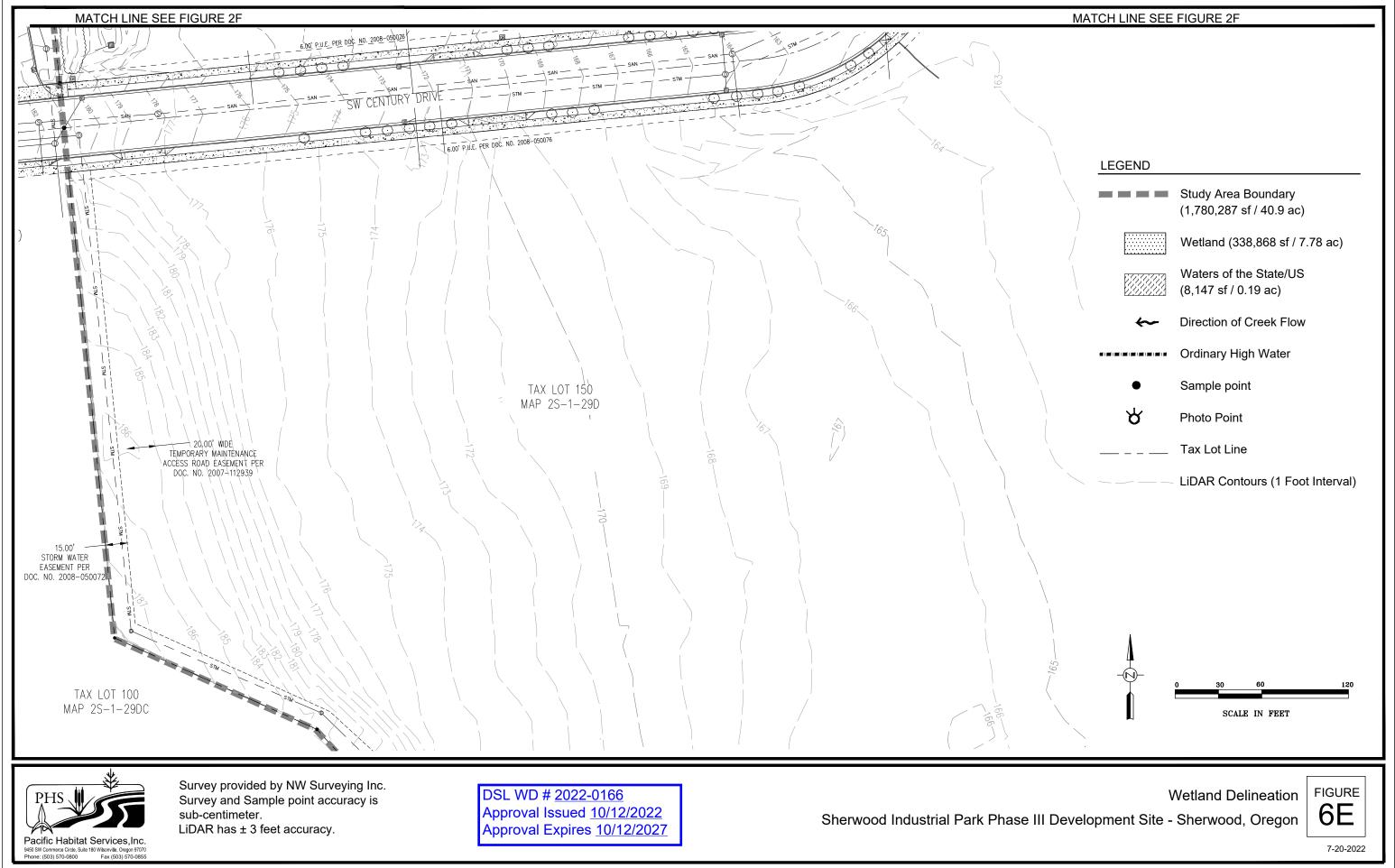
Mitigation RGL 1758

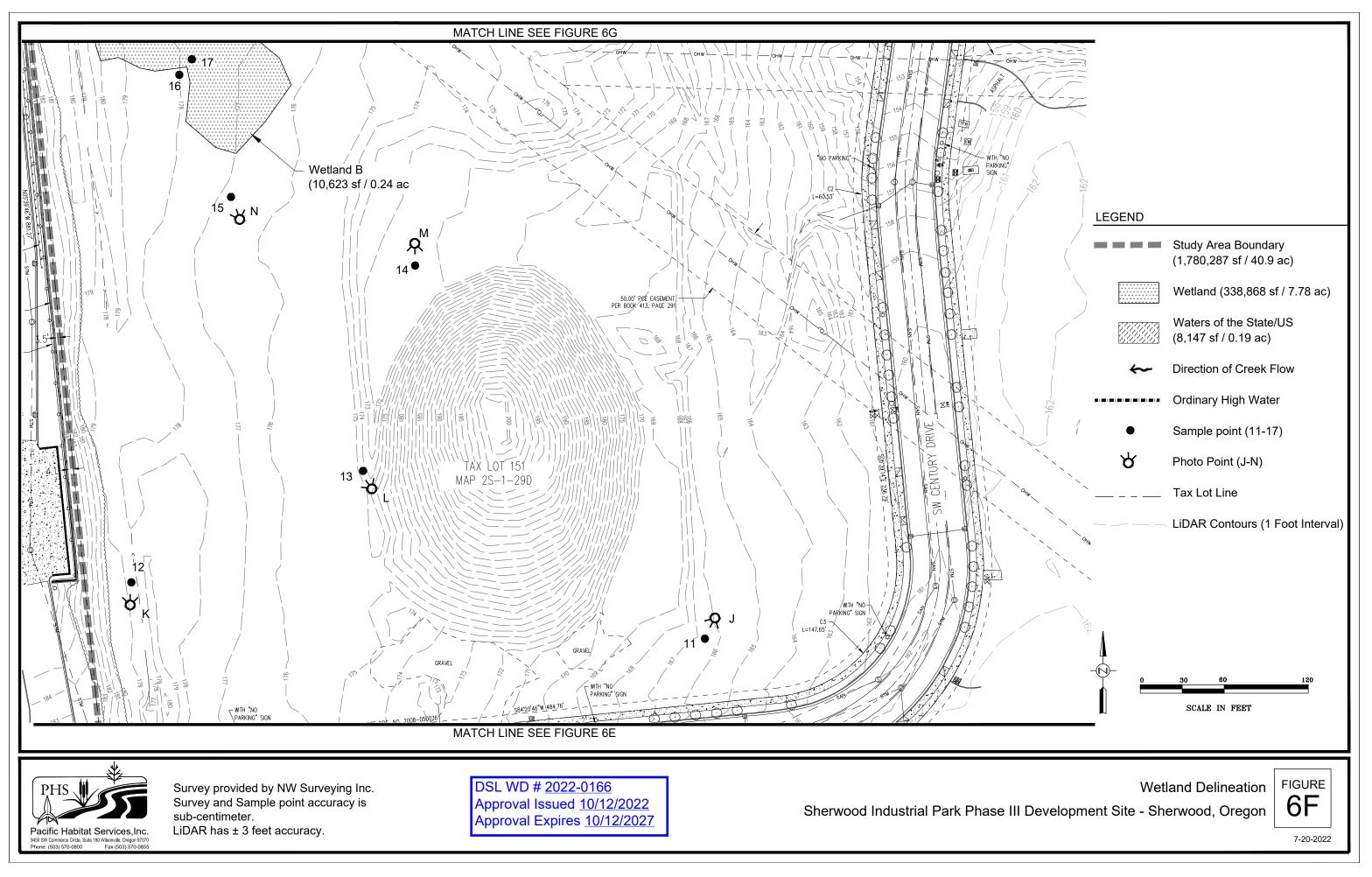
Wetland Delineation

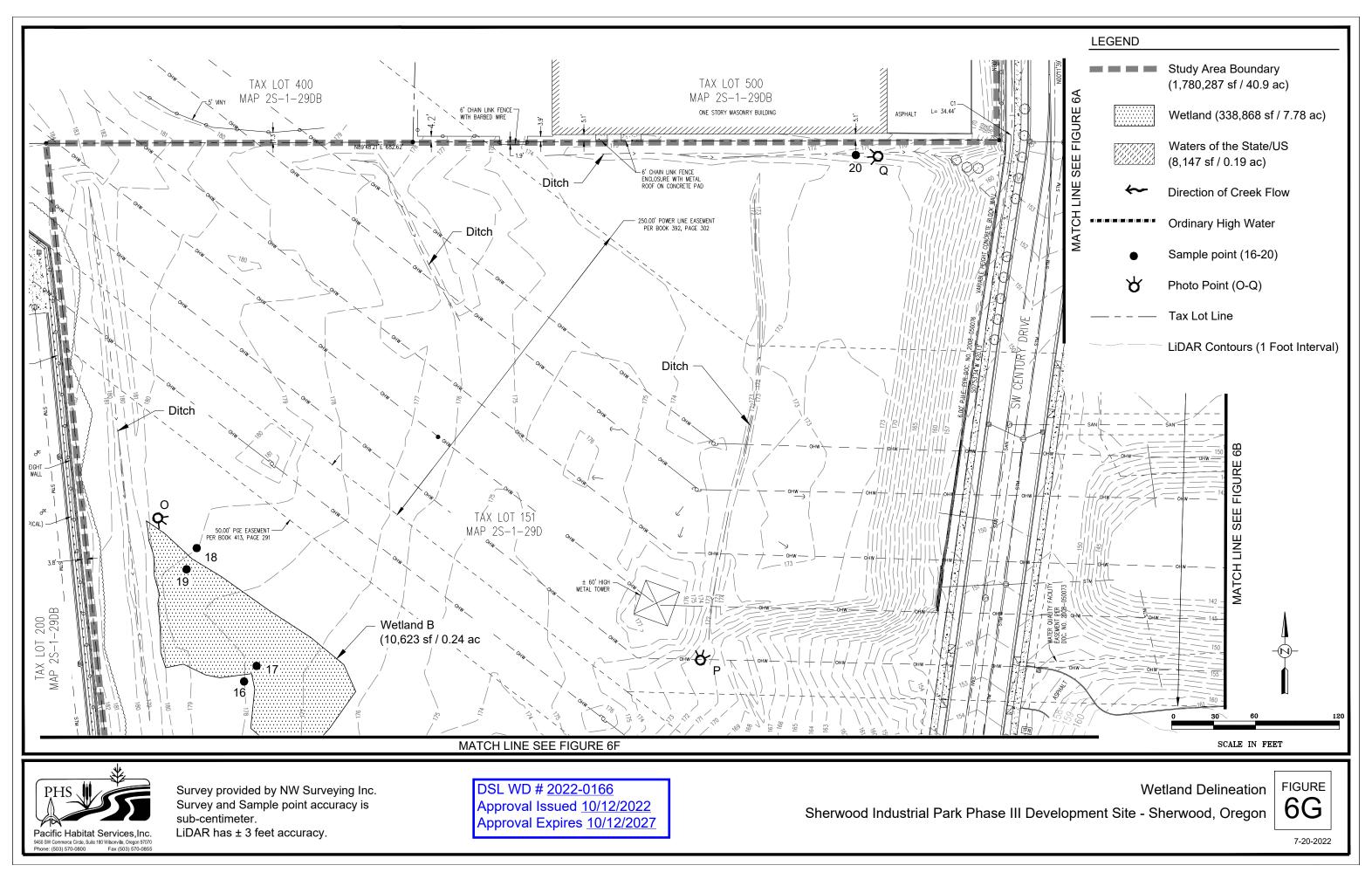
Sherwood Industrial Park Phase III Development Site - Sherwood, Oregon



10-11-2022







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Wetland Delineation Sherwood Industrial Park Phase 3 Development Site, Sherwood, Oregon

(Township 2 South, Range 1 West, Section 29D, Tax Lots 150 & 151)

Prepared for

Ryan Suarez, Vice President of Development Robert Evans Company 1922 NW Pettygrove Street Portland, OR 97209

Prepared by

Carlee Michelson, Caroline Rim, Joe Thompson, PWS, John van Staveren, SPWS **Pacific Habitat Services, Inc.** 9450 SW Commerce Circle, Suite 180 Wilsonville, Oregon 97070 (503) 570-0800 (503) 570-0855 FAX

PHS Project Number: 7296

July 8, 2022 Revised: October 13, 2022



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APPENDIX C: Study Area Photos

I. INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation for a property located along SW Century Drive in Sherwood, Oregon (Township 2 South, Range 1 West, Section 29D, Tax Lots 150 & 151 (portion)). This report presents the results of PHS's delineation of the study area. Figures, including maps depicting the locations of wetlands within the study area are in Appendix A. Data sheets documenting study area conditions are provided in Appendix B. Ground-level photos of the study area are included in Appendix C.

II. RESULTS AND DISCUSSION

A. Landscape Setting and Land Use

The study area is located directly east and west of SW Century Drive, and south of SW Tualatin-Sherwood Road. Topography slopes gently to the southeast in the northwest parcel (Tax Lot 151), west of Century Drive. Topography in the east parcel (Tax Lot 150) is gently sloping east before a moderate decline in slope occurs toward a low floodplain surrounding Rock Creek, which flows north under SW Tualatin-Sherwood Road. Elevations on-site range between approximately 190 feet and 130 feet (Oregon Metro LiDAR, 2014).

Dominant vegetation in tax lot 151 consists of black cottonwood (*Populus balsamifera*, FAC), Himalayan blackberry (*Rubus armeniacus*, FAC), Scotch broom (*Cytisus scoparius*, (UPL)), velvet grass (*Holcus lanatus*, FAC), Canada thistle (*Cirsium arvense*, FAC), colonial bentgrass (*Agrostis capillaris*, FAC), common teasel (*Dipsacus fullonum*, FAC), orchard grass (*Dactylis glomerata*, FACU), bed straw (*Galium aparine*, FACU), sweet vernal grass (*Anthoxanthum odoratum*, FACU), Kentucky bluegrass (*Poa pratensis*, FAC) and reed canarygrass (*Phalaris arundinacea*, FACW). The riparian area abutting the wetland surrounding Rock Creek includes Oregon ash (*Fraxinus latifolia*, FACW), black cottonwood, Pacific willow (*Salix lasiandra*, FACU), Western hazelnut (*Corylus cornuta*, FACU), Scouler's willow (*Salix scouleriana*, FAC), red alder (*Alnus rubra*, FAC), spirea (*Spiraea douglasii*, FACW), tall Oregon grape (*Mahonia aquifolium*, FACU), Scotch broom, Himalayan blackberry, field horsetail (*Equisetum arvense*, FAC), and similar perennial grasses mentioned above. Reed canarygrass dominates the central wetland area adjacent to Rock Creek. A mowed lawn portion of tax lot 150, due east of Century Drive, contains grasses and weedy forbs with occasional emerging Himalayan blackberry.

Natural Resources Conservation Services (NRCS) mapped soils within the study area include Aloha silt loam, Quatama loam, Huberly silt loam (hydric), Briedwell stony silt loam, Wapato silty clay loam (hydric), urban land, and Cove clay (hydric). Units listed as hydric soils are historically associated with wetland.

B. Site Alterations

In the southwest portion of Tax Lot 150, the site contains four existing industrial buildings with adjacent parking lots, truck turnarounds, and loading docks. There is a railroad right-of-way (ROW) adjacent to a ditch bordering the southern study area; the ditch conveys stormwater east toward Rock Creek.

An examination of historical aerial photos shows that earthwork and vegetation clearing occurred on site between 2003 and 2005 (www.historicaerials.com). Existing enhancement plantings (on the east and west side of Wetland A) were constructed between 2007 and 2008 while the existing industrial buildings and associated infrastructure followed between 2010 and 2016. Soils appear disturbed with some areas of mixed matrices and/or high-chroma soils.

Recently, an active trunk sewer construction project along Rock Creek, directly south of Tualatin-Sherwood Road. The project was permitted through the State under 22971RF and impacted a small portion of Rock Creek. Previous delineations included WD2019-0535 and WD2020-0201. These delineation areas are not part of the proposed study area, but abut the boundary.

C. Precipitation Data and Analysis

PHS conducted the wetland delineation and collected data on August 25, September 22, and October 6, 2021. Table 1 compares the average monthly precipitation at the nearest WETS station with comprehensive data (Oregon City, OR) to the observed monthly precipitation at the same station. The same station was selected for monthly observations in order to achieve a reasonable and uniform comparison.

As shown in Table 1, observed precipitation was drier for the first two field visits, and normal for the October field visit. Total observed precipitation for the water year can be found in Table 2 below. No precipitation was recorded on August 25; 0.05 inches fell during the two weeks prior. Precipitation recorded on September 22 was 0.07 inches; 1.81 inches fell during the two weeks prior. No precipitation was recorded on October 6; 3.47 inches fell during the two weeks prior.

| - | | - | | | 0 | | | |
|-----------|---------------------------------------|---|---|-----------------------------------|---|------------------------------|---|---------------------------|
| Month | Average Precipitation ¹ | 30% Chanc Less Than Average ¹ | e Will Have More Than Average ¹ | Measured Rainfall ² | Condition Value ³ (1=dry, 2=normal, 3=wet) | Month Weight ⁴ | Condition Value x Month Weight | Sum Total ⁵ |
| Year 2021 | | | | | | | | |
| May | 2.70 | 1.78 | 3.24 | 2.29 | 2 | 1 | 2 | |
| June | 1.81 | 1.13 | 2.18 | 1.38 | 2 | <u>2</u> , 1 | <u>4, 2</u> | 9(drier) |
| July | 0.83 | 0.33 | 0.98 | 0.01 | 1 | <u>3</u> , 2, 1 | <u>3, 2, 1</u> | 7(drier) |
| August | 1.03 | 0.29 | 1.12 | 0.05 | 1 | 3, 2 | 3 , 2 | 12(normal) |
| September | 1.85 | 0.94 | 2.20 | 2.96 | 3 | 3 | 9 | |

Table 1: August 25, 2021, values are <u>underlined</u>, September 22 values are in <u>bold</u>,October 6 values are in *italics*: Comparison of average and observed monthlyprecipitation prior to the delineation field work using DAREM

¹NRCS WETS Table for the Oregon City, Oregon station, Source: http://agacis.rcc-acis.org/?fips=41005

² Measured rainfall is the precipitation recorded at Oregon City, Oregon station, Source: http://agacis.rcc-acis.org/?fips=41005 ³Condition Value: compared to nearest WETS normal range

⁴Month Weight: most recent month = 3, 2^{nd} most recent month = 2, third most recent month = 1 ⁵Sum Total: sum of eighth column: drier (sum 6-9), normal (sum 10-14), wetter (sum 15-18)

| Water Year | Observed Precipitation (in.) | Average Precipitation (in.) | Percent of Normal |
|-----------------------------|---------------------------------|--------------------------------|-------------------|
| October 2020-August 2021 | 42.22 | 39.42 | 107 |
| October 2020-September 2021 | 45.18 | 41.22 | 110 |
| October 2021 | 7.26 | 4.32 | 168 |

 Table 2:
 Water Year Levels Observed Compared to Average Over the Past 20 Years

Because precipitation averages were drier during the majority of data collection dates in August and September, but above average in October, hydrological conditions were not considered typical for the time of year despite water year levels. Extra care was taken to evaluate hydrology indicators as outlined in the methods section of this report.

D. Methods

As stated above, PHS conducted a wetland delineation and collected data on August 25, September 22, and October 6, 2021. PHS delineated the limits of the wetlands in the study area based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation in accordance with the routine onsite determination method, as described in the *Corps of Engineers Wetland Delineation Manual, Wetlands Research Program Technical Report Y 87 1* ("The 1987 Manual") and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region.*

The top of bank was delineated to obtain the ordinary high water (OHW) of Rock Creek due to its length, which is not intended for future impact. As such, the top of bank of Rock Creek was identified using LiDAR, surveyed topographic contours, and by incorporating periodic GPS points collected at the top of bank. In accordance with methods outlined in *Determining the Ordinary High Water Mark on Streams in Washington State*, the top of bank along this reach of Rock Creek has a channel pattern of straight to slightly sinuous, with the OHW below the vertical top of bank based on high water stage, soil, and changes in vegetation.

Despite the presence of disturbed/managed vegetation upslope (including invasive grasses that spread easily), there were generally higher percentages of FACW vegetation within the wetlands, like reed canarygrass. Due to the presence of reed canarygrass in both wetlands and upland fringes, the boundary was delineated based mainly on the presence of hydrology and hydric soils. Several upland plots meet hydrophytic vegetation criteria due to the presence of minor reed canarygrass combined with predominantly facultative status species.

Wetland hydrology indicators varied between those present in the lower wetland boundary compared to those upslope. In upslope, better-drained environments, wetland indicators typically present included secondary indicators like geomorphic position and/or FAC-Neutral test. Hydrology indicators present in lower elevations, like the floodplain surrounding Rock Creek, included both secondary and primary indicators. Some upland areas adjacent to wetland boundaries also displayed redoximorphic features at low percentages, but typically within high-chroma matrices and with no accompanied hydrology indicators.

Soils on site followed a similar theme, where stronger concentrations of redox features were present in the lower elevations of Wetland A. Upslope, Wetland B is isolated to a shallow depression, likely avoided during ground clearing activities from 2003-2005 described above. The geomorphic position of the area accumulates overland flow during precipitation events and retains moisture long enough that hydric soils have developed with hydrophytic vegetation. The break in slope along the shallow grade and along the floodplain aided in the delineation boundary, which is abrupt. The east boundary of Wetland A has a more gradual slope in the southeast corner. Much of these areas were diffuse, and so more soil excavations were required to delineate the boundary.

E. Description of all Wetlands and Other Waters

PHS identified the jurisdictional limits of two wetlands and one other water within the study area. Descriptions of the delineated wetlands are provided below.

Wetland A

Wetland A (6.98 acres/ 304,051 square feet) is a palustrine forested-broad leaved deciduous, and emergent-persistent, seasonally flooded/saturated (PFO/EM1E) wetland with a hydrogeomorphic (HGM) classification of Riverine. The wetland receives hydrology from seasonal overflow from Rock Creek, overland flow, direct precipitation, and stormwater from adjacent developments. Dominant vegetation consists of Pacific willow, Oregon ash, black cottonwood, Himalayan blackberry, tall Oregon grape, reed canarygrass, colonial bentgrass, lesser hawkbit, field meadow foxtail, and velvet grass. The majority of central wetland is PEM, with PFO along the wetland/upland boundary. Hydric soil indicators present in the wetland include Redox Dark Surface (F6). Hydrology indicators include sediment deposits (B2), Oxidized Rhizospheres along Living Roots (C3), Drainage Patterns (B10), Geomorphic Position (D2), Fac-Neutral Test (D5), Raised Ant Mounds (D6), and Frost-Heave Hummocks (D7). Sample points 2, 5 and 7 characterize Wetland A, with sample points 1, 3, 4 and 6 characterizing the adjacent upland.

Vegetation in the upland consists of black cottonwood, Oregon ash, tall Oregon grape, Scotch broom, Himalayan blackberry, trailing blackberry, reed canarygrass, orchard grass, field horsetail, Canada thistle, brome, sweet vernal grass, and oxeye daisy (*Leucanthemum vulgare*, FACU). No hydric soils or hydrology were present in the upland. Wetland A continues north and south beyond the study area.

Wetland Ditch

A Wetland Ditch (0.56 acres/ 24,194 square feet) exists in the southern study area and conveys seasonal runoff into Wetland A. The Wetland Ditch is a palustrine scrub-shrub, broad leaved deciduous, seasonally flooded/saturated, excavated, partly drained/ditched (PSS1Edx) wetland with a HGM classification of Slope. The wetland receives hydrology from direct precipitation and overland flow, particularly stormwater accumulation. Dominant vegetation consists of Oregon ash, Himalayan blackberry, velvet grass, colonial bentgrass, spreading rush (*Juncus patens*, FACW), and Dewey's sedge (*Carex deweyana*, FAC). Hydric soil indicators present in the wetland include Redox Dark Surface (F6). Hydrology indicators include Oxidized Rhizospheres along Living Roots (C3), Drainage Patterns (B10), Geomorphic Position (D2), and Fac-Neutral Test (D5). Sample point 9 characterizes the Wetland Ditch, with sample points 8 and 10 characterizing the adjacent upland.

Vegetation in the upland consists of Oregon white oak, Douglas fir, Western hazelnut, Scouler's willow, spirea, Scotch broom, tall Oregon grape, red alder, Himalayan blackberry, Douglas hawthorn, clustered rose, reed canarygrass, velvet grass, and bed straw. No hydric soils were present in the upland; however, Fac-Neutral Test and Geomorphic Position were present at sample point 3, which was excavated to 20" to ensure no dry-season high water table was present. Wetland Ditch does not extend beyond the study area but does connect to Wetland A which is lower in elevation within the floodplain of Rock Creek.

Wetland B

Wetland B (0.24 acres/ 10,623 square feet) is a palustrine emergent-persistent, seasonally saturated, excavated (PEM1Bx) wetland with a hydrogeomorphic (HGM) classification of Depressional. The wetland receives hydrology from direct precipitation that accumulates in a shallow depression. Dominant vegetation consists of reed canarygrass. Hydric soil indicators present in the wetland include Redox Dark Surface (F6). Hydrology indicators include Oxidized Rhizospheres along Living Roots (C3), Geomorphic Position (D2), and Fac-Neutral Test (D5). Sample points 17 and 19 characterize Wetland B, with sample points 16 and 18 characterizing the adjacent upland.

Vegetation in the upland consists of black cottonwood, Scotch broom, Himalayan blackberry, teasel, sweet vernal grass, reed canarygrass, and colonial bentgrass. No hydric soils were present in the upland; however, Fac-Neutral Test was present at sample point 16. Wetland B is isolated and does not extend beyond the study area.

Rock Creek

Rock Creek (0.19 acres/ 8,147 square feet) is a perennial tributary of the Tualatin River residing within Wetland A. The creek flows north and continues beyond the study area. The Creek is a Riverine, lower perennial, unconsolidated bottom (R2UB) other waters with a HGM classification of Riverine. Dominant vegetation along the banks of the creek consists of reed canarygrass, but trees and shrubs populate the bank near SW Tualatin-Sherwood Road. The channel width varies between approximately 20-25 feet with steep, almost vertical banks aerially aligned with OHW.

F. Deviation from Local Wetland Inventory or National Wetland Inventory

The Local Wetlands Inventory (LWI) map of Sherwood (1998) displays wetlands R-3, R-5, and R-6 within the study area. Wetland R-5 and R-3 are roughly in alignment with Wetland A and Rock Creek as mapped by PHS. Wetland R-6 on the west side of the study area is not present in the size or quantity shown on the inventory (at the location of Wetland B). The difference in findings between the LWI and PHS' mapping may, in part, be a result of past ground-work activities circa 2003/2004, which is compared to field work for the LWI dated from <u>1992</u>. The data from 1992 meets wetland criteria based on hydric soils of 10YR 3/1 to 7.5YR 3.2 with no recorded percentage of mottles, which may not meet the current definition for hydric soil criteria since dark surface soils are no longer sufficient. Additionally, only saturation was present at the time the data was recorded in 1992 and no high water table. If conditions on site were unchanged since 1992, it is unlikely that the site would meet wetland criteria today even without past groundwork disturbances during the mid-2000s. Finally, the surrounding development upslope may be affecting the amount of hydrology currently reaching the site, which has likely reduced the amount of overland sheet flow in the study area.

G. Mapping Method

PHS flagged the limits of the wetlands within the study area with blue flagging and the sample points with green flagging. Northwest Surveying, Inc. then surveyed the delineated boundaries and sample points with an accuracy of sub-centimeter. Metro LiDAR (2014) contours have an accuracy of \pm -3 feet.

H. Additional Information

The following delineations were conducted on site: WD2000-0436, WD2019-0535, and WD2020-0201. Past mitigation is also present on site under RGL 1758.

I. Results and Conclusions

PHS delineated the following wetlands and other waters within the study area. Table 3 provides a summary of wetlands by Cowardin and HGM classification, as well as acreages within the study area.

| Feature | Area acre / square feet | Cowardin Class | HGM Class |
|---------------|----------------------------|----------------|--------------|
| Wetland A | 6.98 / 304,051 | PFO/EM1E | Riverine |
| Wetland Ditch | 0.56 / 24,194 | PSS1Edx | Slope |
| Wetland B | 0.24 / 10,623 | PEM1Bx | Depressional |
| Total Wetland | 7.78 / 338,868 | | |
| Rock Creek | 0.19 / 8,147 | R2UB | Riverine |
| Total Waters | 0.19 / 8,147 | | |

| Table 3. | Summary | of Wetlands and | Water Resources | within the Study Area |
|----------|---------|-----------------|-----------------|-----------------------|
| Table J. | Summary | or wettanus and | water Resources | within the Study Area |

J. Required Disclaimer

This report documents the investigation, best professional judgment, and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.

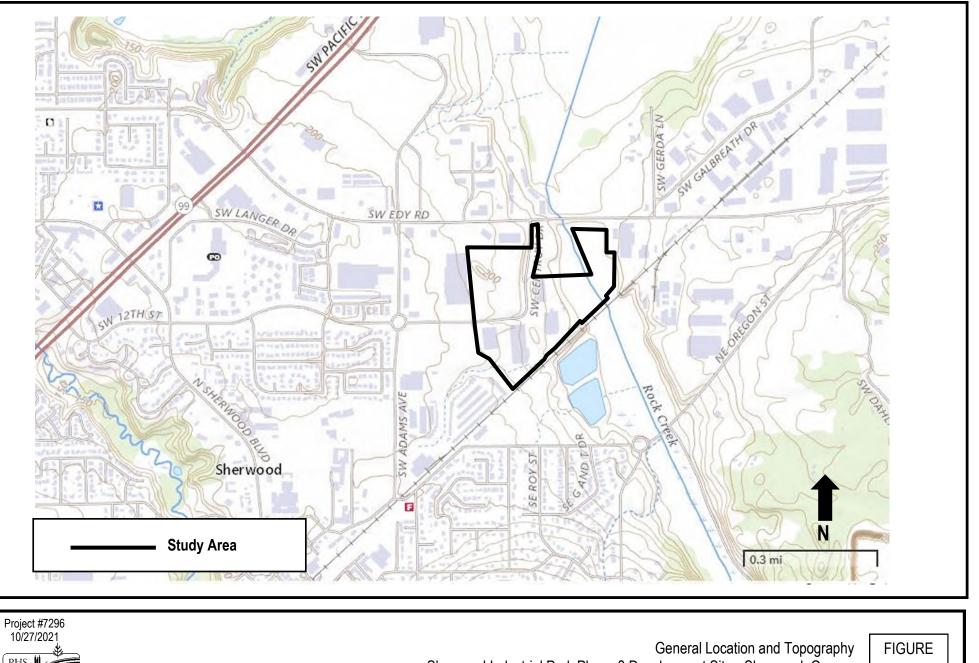
III. REFERENCES

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- U.S. Geological Survey, 2022. Sherwood, Oregon Co. 7.5-minute Quadrangle Map

Appendix A

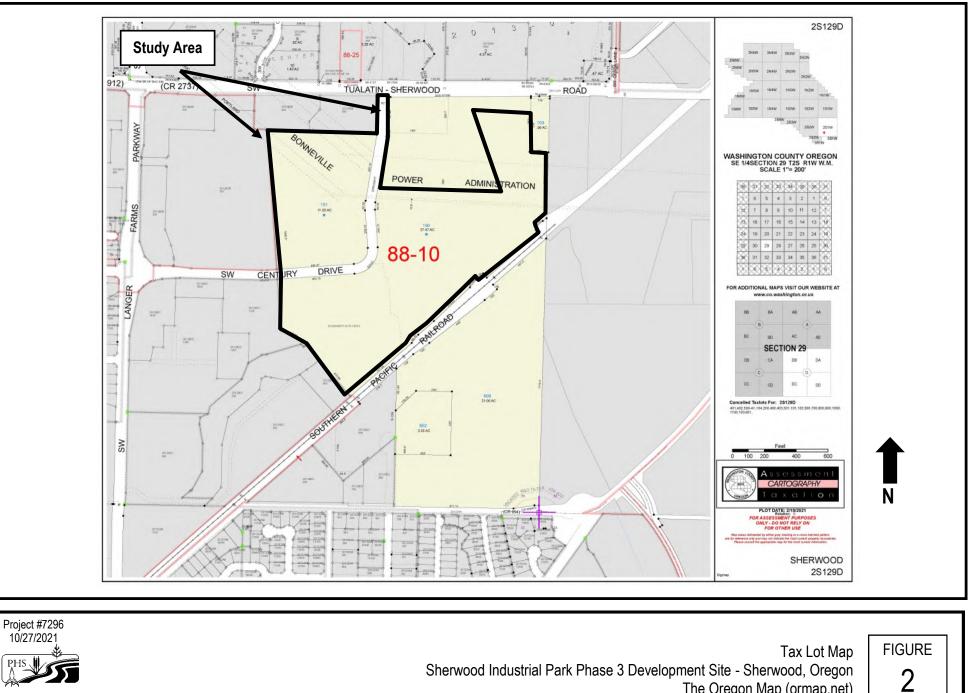
Figures





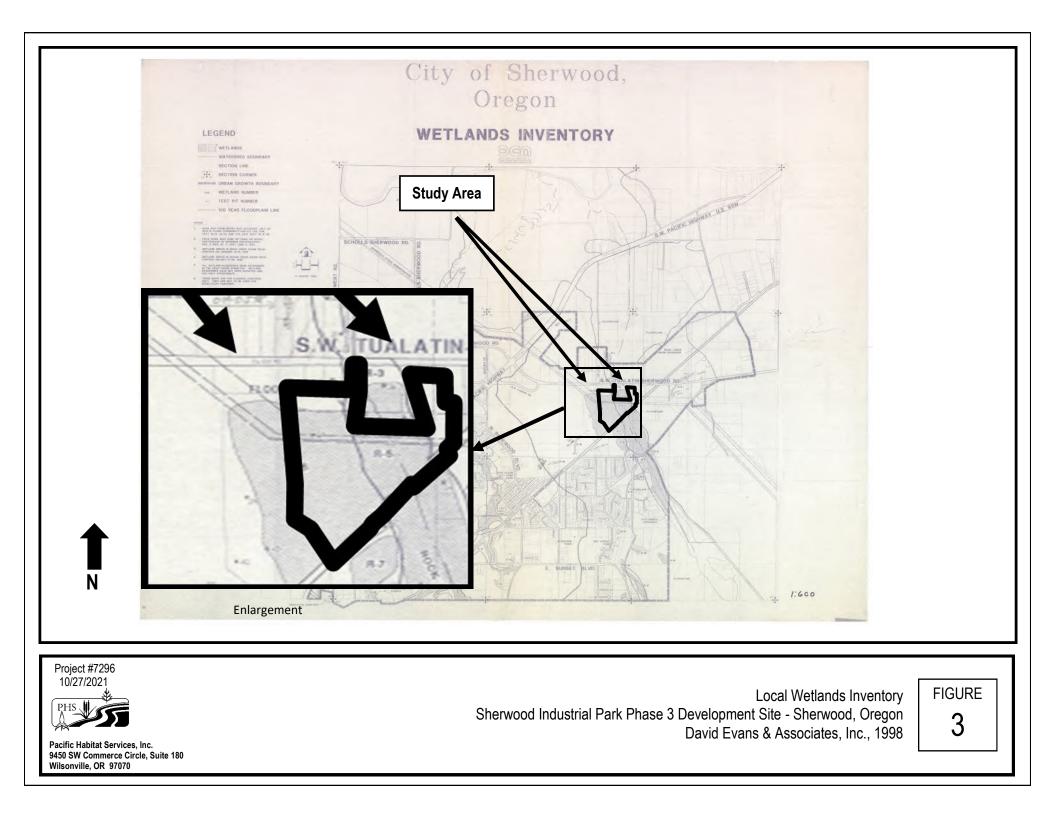
Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Sherwood Industrial Park Phase 3 Development Site - Sherwood, Oregon United States Geological Survey (USGS) Sherwood, Oregon 7.5 quadrangle, 2022 (viewer.nationalmap.gov/basic)

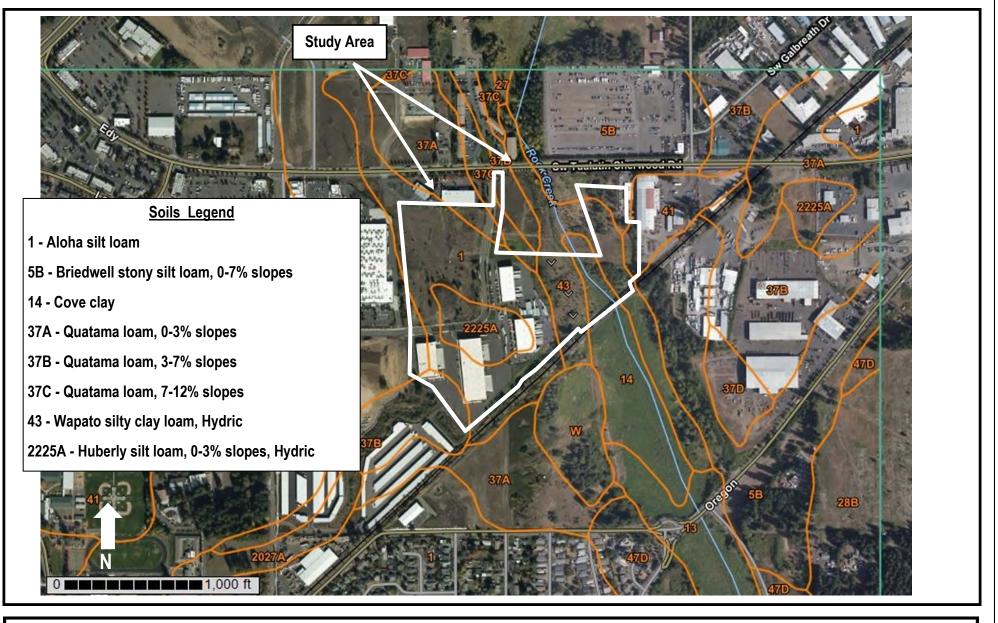
4



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

The Oregon Map (ormap.net)





Project #7296 10/272021



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Sherwood Industrial Park Phase 3 Development Site - Sherwood, Oregon Natural Resources Conservation Services, Web Soil Survey, 2022 (websoilsurvey.sc.egov.usda.gov)



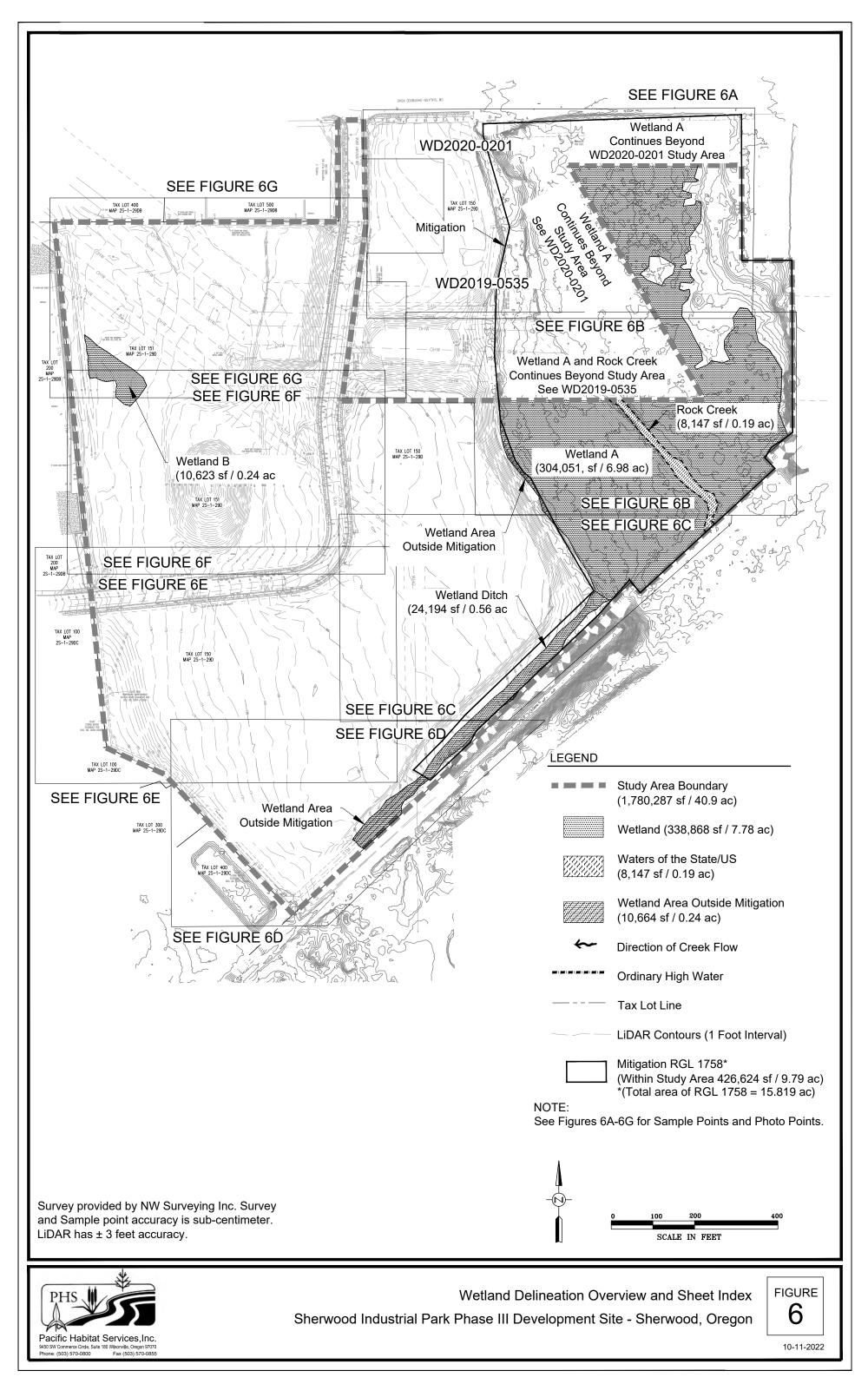
Soils



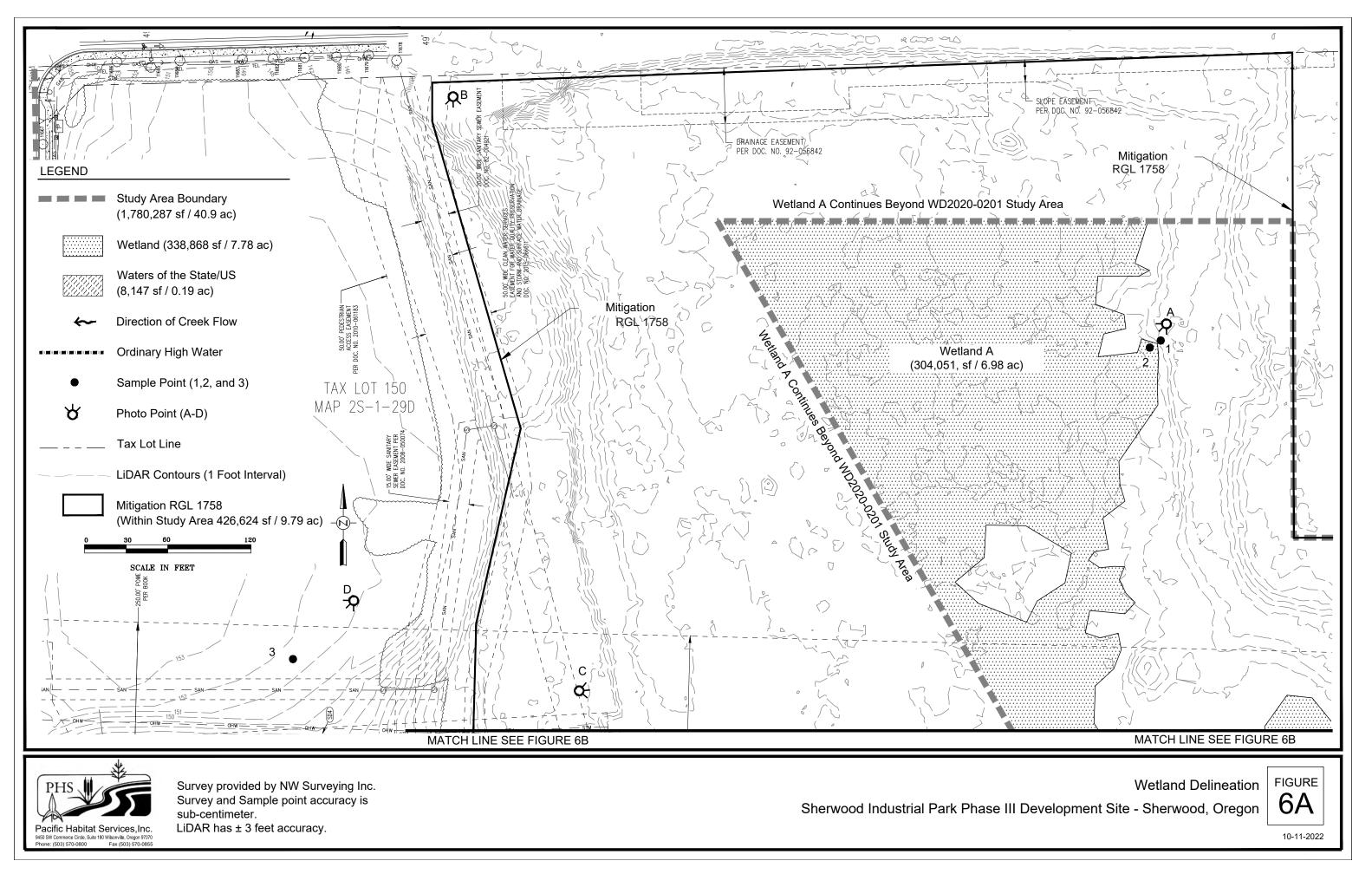
Project #7296 10/27/2021

PHS

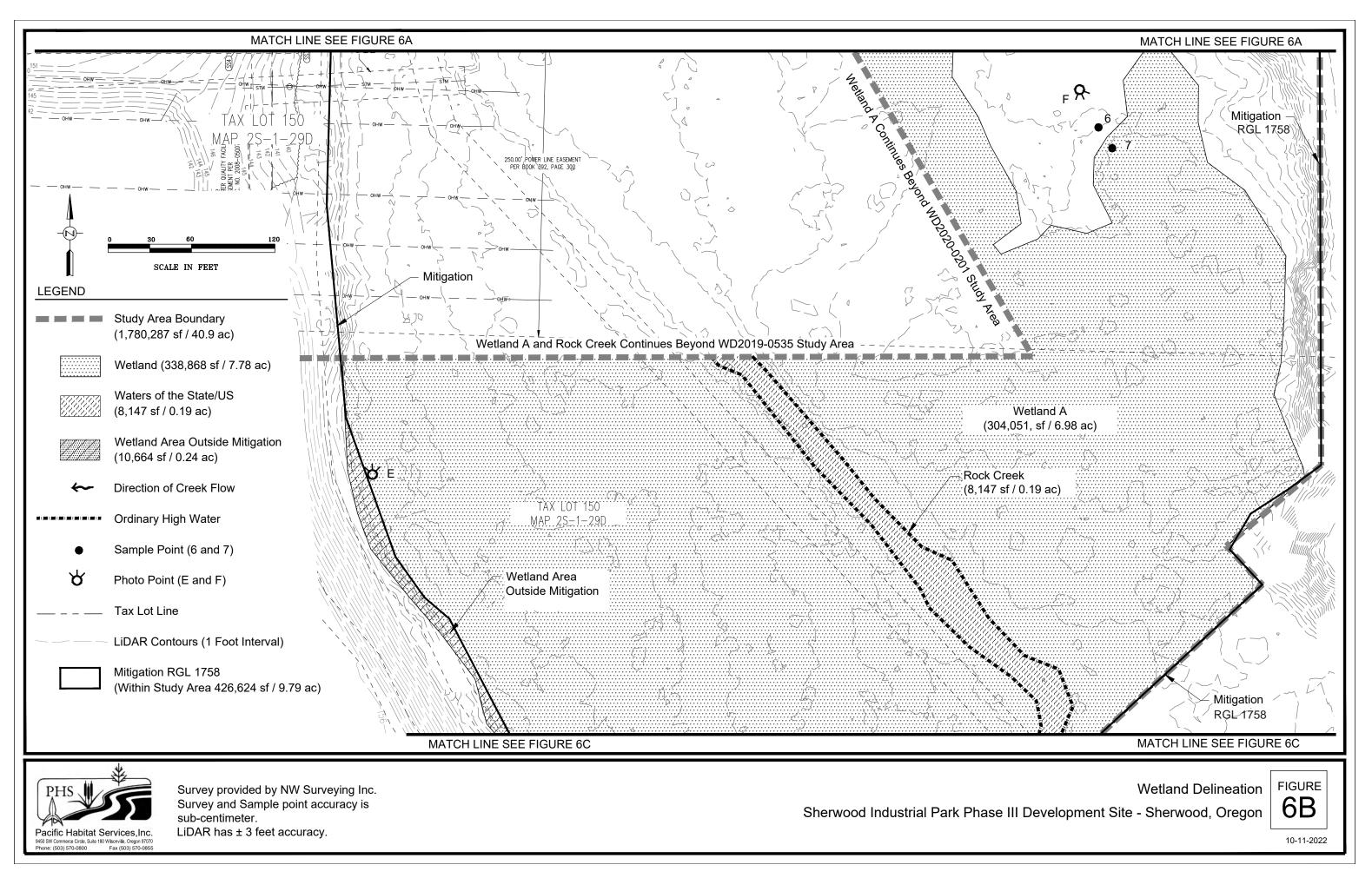
Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Aerial Photo Sherwood Industrial Park Phase 3 Development Site - Sherwood, Oregon GoogleEarth, 2020 FIGURE 5

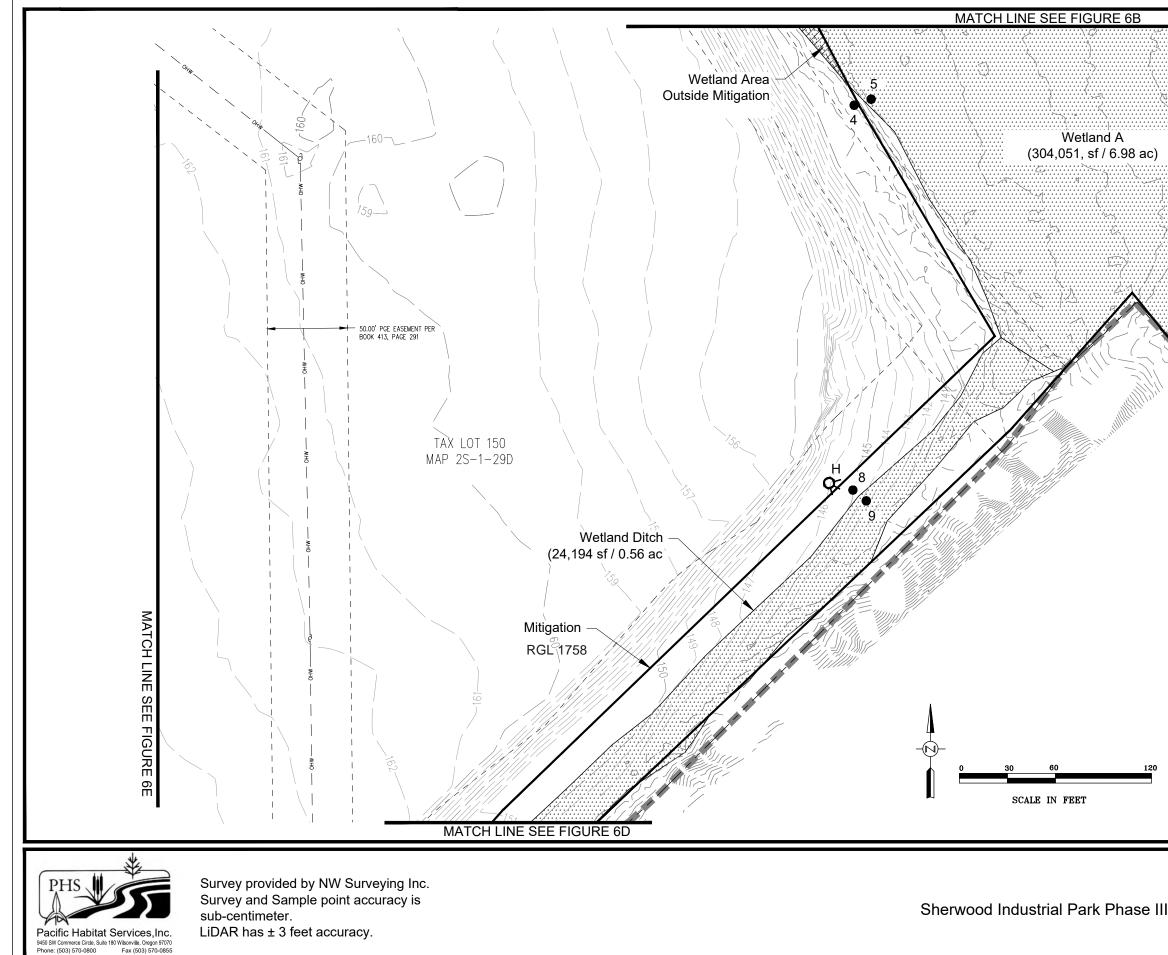


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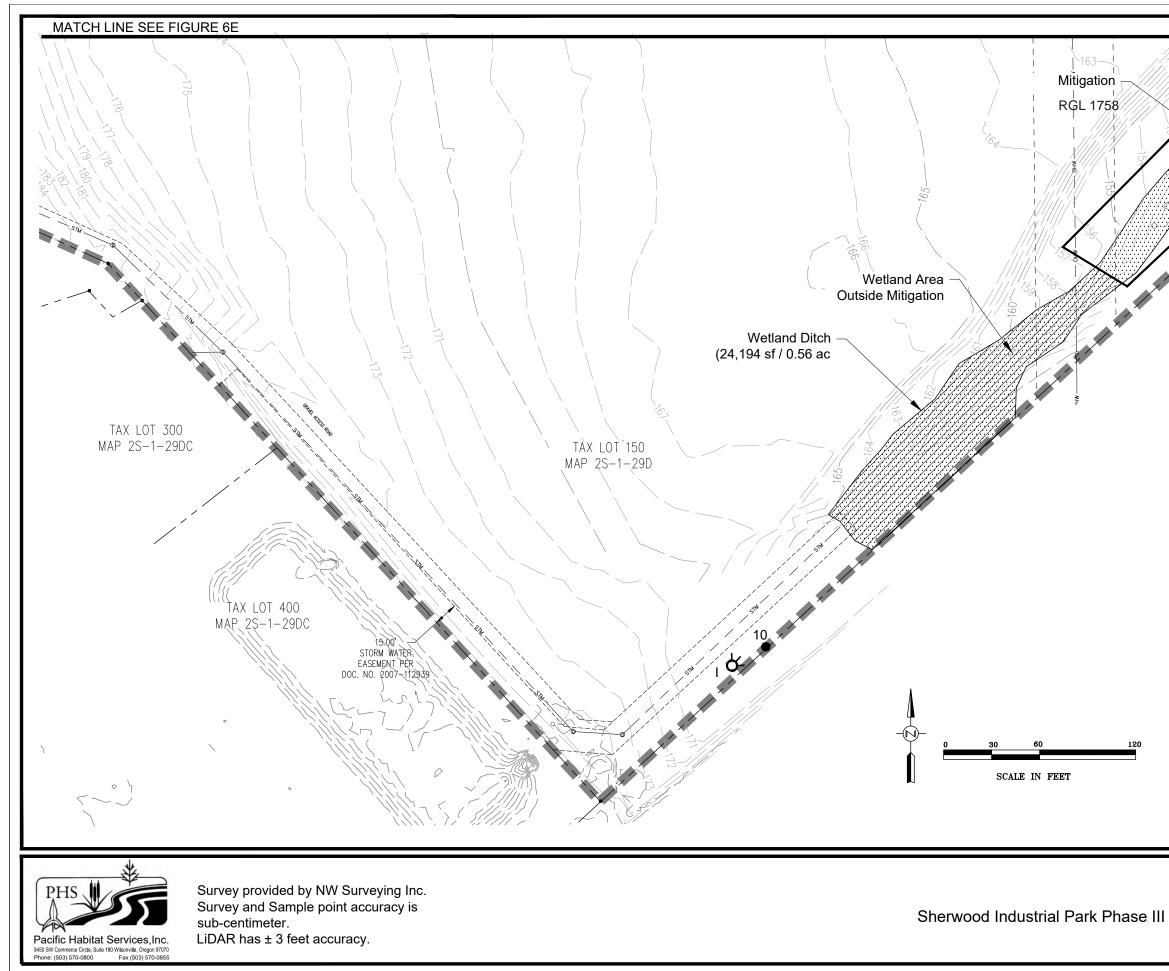
| Rock Cre (8,147 sf / 0.19 | ek |
|------------------------------|--|
| G G LEGEND | |
| | Study Area Boundary (1,780,287 sf / 40.9 ac) |
| | Wetland (338,868 sf / 7.78 ac) |
| | Waters of the State/US (8,147 sf / 0.19 ac) |
| | Wetland Area Outside Mitigation (10,664 sf / 0.24 ac) |
| *~ | Direction of Creek Flow |
| | Ordinary High Water |
| ٠ | Sample Point (4,5,8 and 9) |
| ላ | Photo Point (G and H) |
| | Tax Lot Line |
| | LiDAR Contours (1 Foot Interval) |
| | Mitigation RGL 1758 |

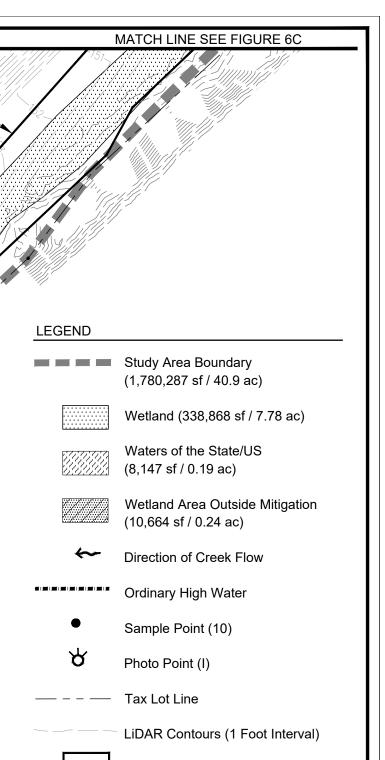
Wetland Delineation

Sherwood Industrial Park Phase III Development Site - Sherwood, Oregon



10-11-2022





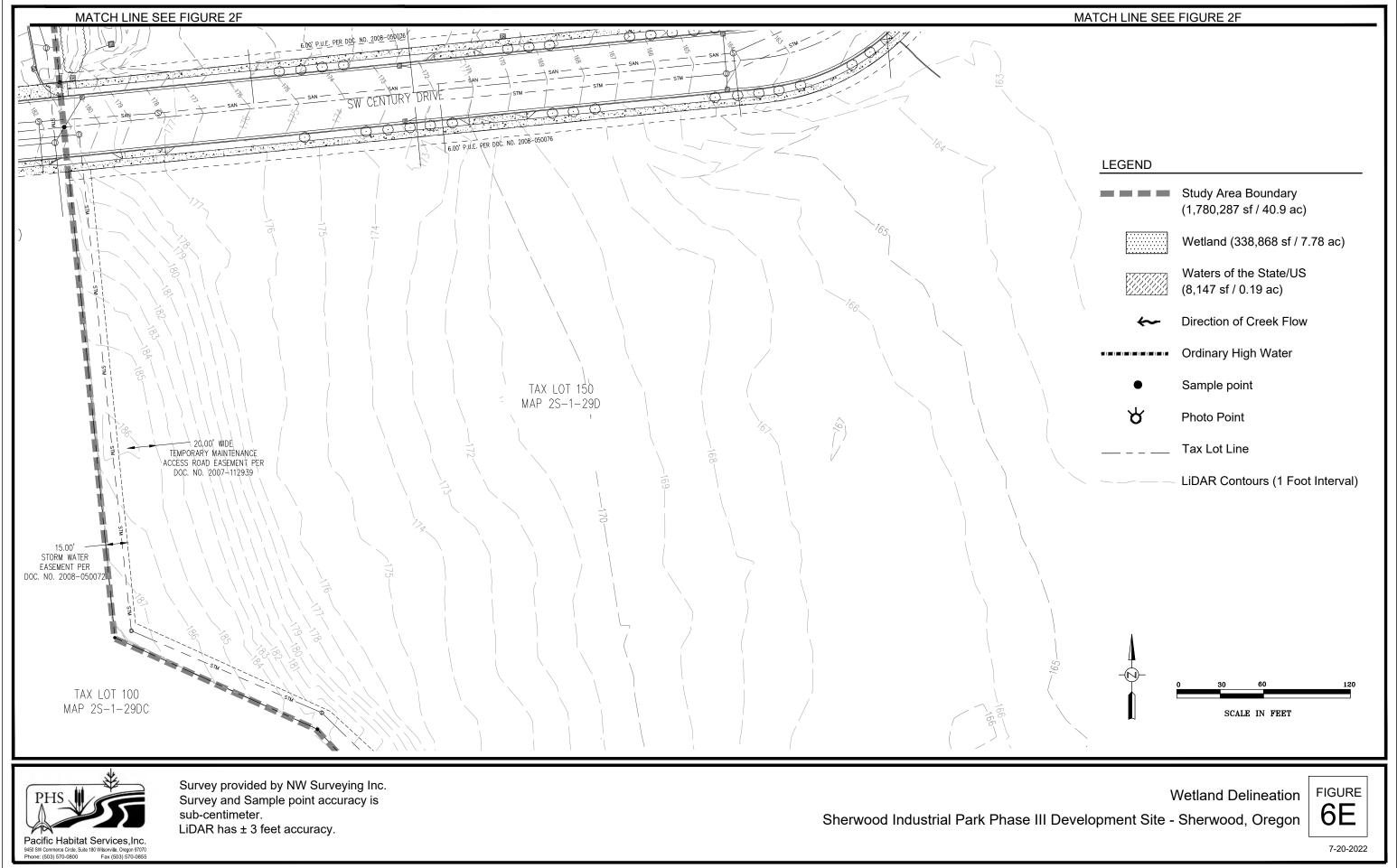
Mitigation RGL 1758

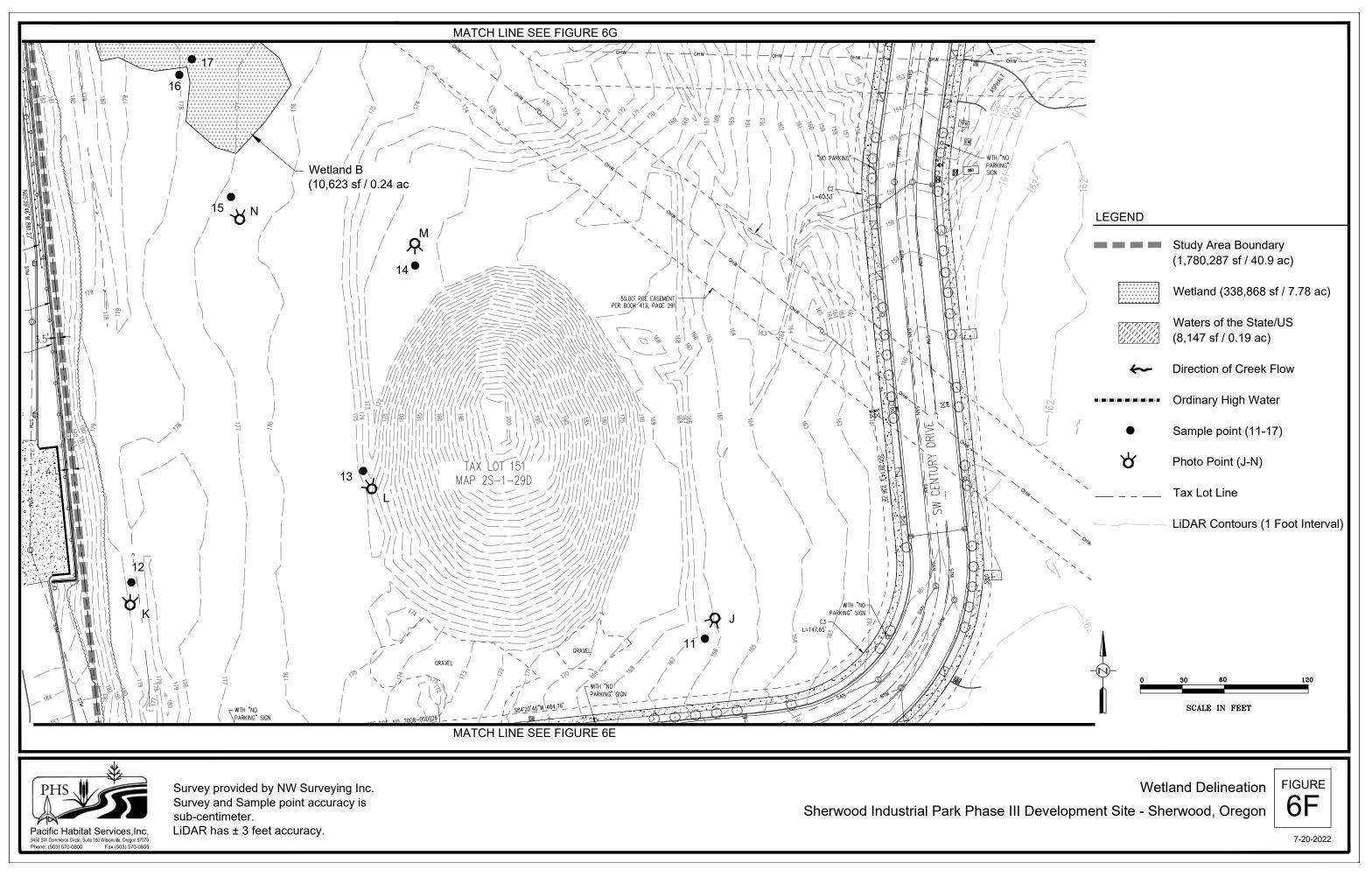
Wetland Delineation

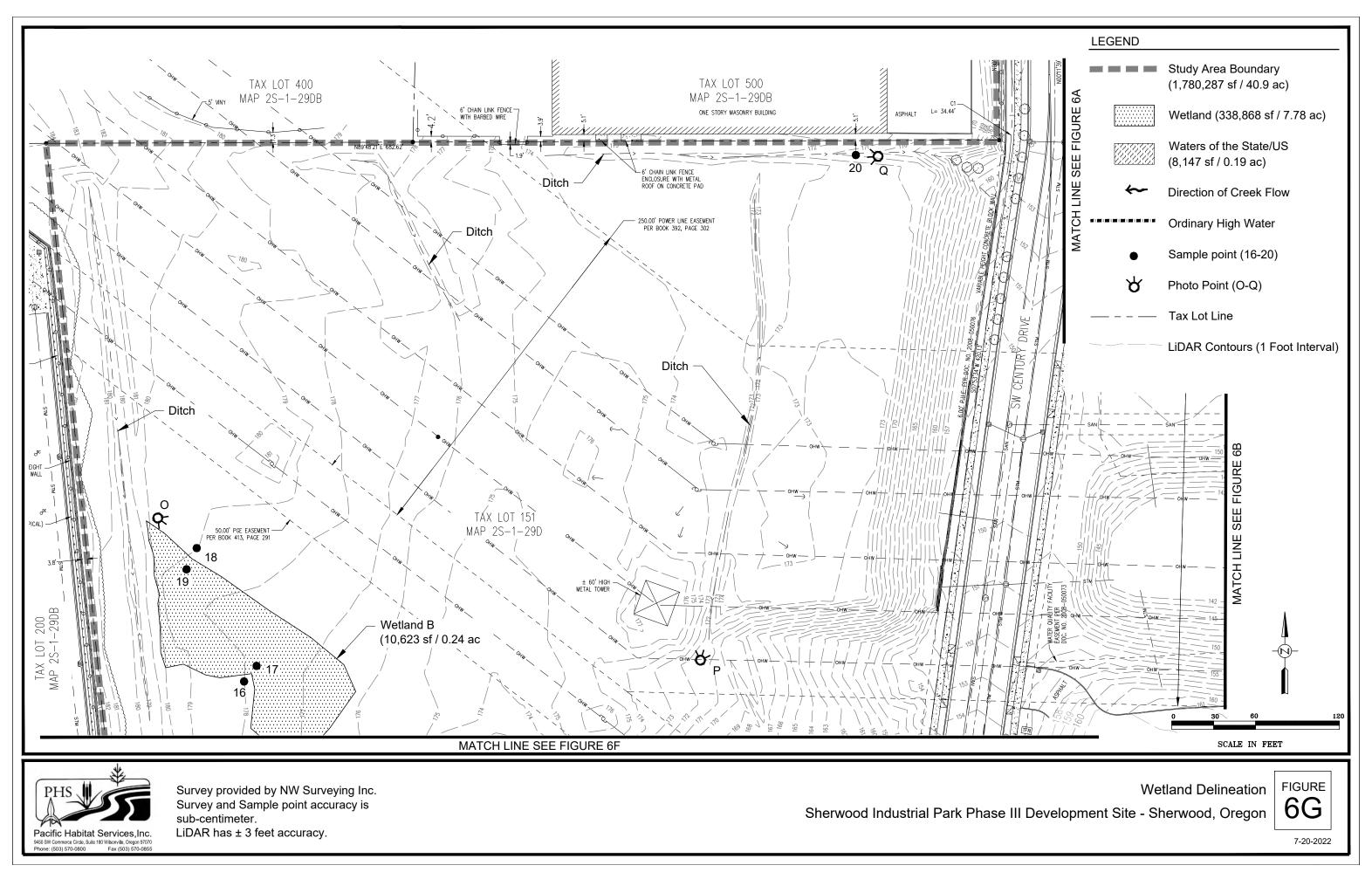
Sherwood Industrial Park Phase III Development Site - Sherwood, Oregon



10-11-2022







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Appendix B

Wetland Delineation Data Sheets



| | WETLAND | | | | RM - Weste | rn Mountains, Val | levs. and Coa | PHS # st Region | 7296 |
|---|---|---------------------------------------|---|--|---------------------------------|---|---|-----------------------------------|----------------|
| Project/Site: | Sherwood | | | City/County: | | ood/Washington | Sampling Date: | - | /2021 |
| Applicant/Owner: | OWRA Sh | | | | | State: | | Sampling Point: | 1 |
| Investigator(s): | | CM/CR | | Section, To | wnship, Range: | <u> </u> | D, Township 2So | | est |
| _andform (hillslope | e. terrace. etc.:) | | Slope | | | ncave, convex, none): | None | Slope (%): | |
| Subregion (LRR): | -,,, | | | Lat: | 45.36 | · · · · | -122.8269 | Datum: | WGS84 |
| Soil Map Unit Nam | 1e. | | | - stony silt loam | | 3 . | ssification: | None | |
| Are climatic/hydrol | | on the site t | | | Yes | No | | blain in Remarks) | |
| Are vegetation | 0 | | | significantly dist | | Are "Normal Circumstand | | , | |
| are vegetation | | _ | | | | , explain any answers in Re | , | | |
| | | | | | | | manoly | | |
| SUMMARY O | F FINDINGS | – Attac | h site map s | showing san | npling point | locations, transects | , important fea | tures, etc. | |
| lydrophytic Veget | ation Present? | Yes | No | Х | Is Sampled Ar | | | | |
| Hydric Soil Presen | nt? | Yes | No | X | a Wetlar | N/ | | No X | |
| Wetland Hydrology | y Present? | Yes | No | Х | | | | | |
| lower topogra 3PJ that hydro slopes on site a | phy, or in are logy is slowly are not condu | as where / being di ucive to re | hydrophytic v verted throug etaining wate | vegetation an gh stormwater r, nor do they | d hydric soils infrastructur | we make sure to evalu are present. The site i e and storm facilities. nual sheet flow from p | s surrounded by The geomorphic | new developme position of grae | ent. It is our |
| /EGETATION | I - Use scier | ntific nar | | | | | | | |
| | | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test wor | ksheet: | | |
| <u>Free Stratum</u> (p | olot size: |) | | | | Number of Dominant Spe | cies | | |
| 1 | - | | | | | That are OBL, FACW, or | FAC: | 3 | (A) |
| 2 | | | | | | | | | |
| 3 | | | | | | Total Number of Dominar | ıt | | |
| 4 | | | | | | Species Across All Strata | : | 6 | (B) |
| | | | 0 | = Total Cover | | | | | |
| Sapling/Shrub Stra | atum (plot size | e: <u>30</u> |) | | | Percent of Dominant Spe | cies | | |
| 1 Populus ba | | | 5 | | FAC | That are OBL, FACW, or | FAC: | 50% | (A/B) |
| 2 Cytisus sco | • | | 20 | <u> </u> | (UPL) | | | | |
| 3 Rubus arme | | | | <u> </u> | FAC | Prevalence Index Wo | | | |
| 4 Quercus ga 5 Crataegus r | - | | <u>5</u> 5 | | FACU FAC | Total % Cover of OBL Species | Multiply b x 1 = | | |
| orulacyus r | nonogyna | | 45 | = Total Cover | | FACW species | x 2 = | | |
| | | | | | | FAC Species | x 3 = | | |
| lerb Stratum (p | olot size: | 10) | | | | FACU Species | x 4 = | 0 | |
| 1 Holcus lana | | | 25 | <u>X</u> | FAC | UPL Species | x 5 = | | |
| 2 Bromus sp. | | | 20 | <u> </u> | (FAC) | Column Totals | 0 (A) | 0 | (B) |
| | num vulgare num odoratun | , | <u>15</u> 25 | X | FACU FACU | Prevalence Index =I | B/A = | #DIV/0! | |
| 5 Hypericum | | | <u></u> 5 | | FACU | | | | |
| 6 Dactylis glo | - | | 10 | | FACU | Hydrophytic Vegetat | ion Indicators: | | |
| 7 | | | | | | | 1- Rapid Test for Hyd | rophytic Vegetatior | ı |
| 8 | | | | | | | 2- Dominance Test is | >50% | |
| | | | 100 | = Total Cover | | | 3-Prevalence Index is | | |
| | | | ` | | | | 4-Morphological Adap | | |
| Voody Vine Stratu | | | _) | v | EACU | | data in Remarks or o 5- Wetland Non-Vaso | |) |
| 1 Rubus ursi 2 | nus | | 10 | <u> </u> | FACU | | 5- Wetland Non-Vasc Problematic Hydroph | | (nlain) |
| ۷ | | | 10 | = Total Cover | | ¹ Indicators of hydric soil a disturbed or problematic. | | | |
| | | | | | | Hydrophytic | | | |
| % Bare Ground in | Herb Stratum | | 0 | | | Vegetation Present? | Yes | No | <u> </u> |

| SOIL | PHS # | 7296 | | Sampling Point: 1 |
|--|---------------------------|-----------------------------------|------------------------------|---|
| Profile Description: (Describe to the dept | th needed to docume | nt the indicator or confirm th | e absence of indicators.) | |
| Depth Matrix | | Redox Features | 2 | - . |
| (Inches) Color (moist) % | Color (moist) | % Type' L | oc ² Texture | Remarks |
| 0-13 10YR 3/2 100 | | | Silt Loam | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| ¹ Type: C=Concentration, D=Depletion, RM= | Reduced Matrix, CS=0 | Covered or Coated Sand Grain | S. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable | | | | ators for Problematic Hydric Soils ³ : |
| Histosol (A1) | · | Sandy Redox (S5) | | 2 cm Muck (A10) |
| Histic Epipedon (A2) | | Stripped Matrix (S6) |) | Red Parent Material (TF2) |
| Black Histic (A3) | | | al (F1) (except MLRA 1) | Very Shallow Dark Surface (TF12) |
| Hydrogen Sulfide (A4) | | Loamy Gleyed Matr | | Other (explain in Remarks) |
| Depleted Below Dark Surface | (11) | Depleted Matrix (F3 | | |
| | (ATT) | | | |
| Thick Dark Surface (A12) | | Redox Dark Surface | | ³ Indicators of hydrophytic vegetation and wetland |
| Sandy Mucky Mineral (S1) | | Depleted Dark Surfa | | hydrology must be present, unless disturbed or |
| Sandy Gleyed Matrix (S4) | | Redox Depressions | (F8) | problematic. |
| Restrictive Layer (if present): | | | | |
| Туре: | | | | |
| Depth (inches): | | | Hydric Soil Pres | ent? Yes <u>No X</u> |
| Remarks: | | | | |
| | | | | |
| | | | | |
| | | | | |
| HYDROLOGY Wetland Understand | | | | |
| Wetland Hydrology Indicators: | | | | |
| Primary Indicators (minimum of one re | equired; check all th | at apply) | | Secondary Indicators (2 or more required) |
| Surface Water (A1) | | | es (B9) (Except MLRA | Water stained Leaves (B9) |
| High Water Table (A2) | | 1, 2, 4A, and 4B) | | (MLRA1, 2, 4A, and 4B) |
| Saturation (A3) | | Salt Crust (B11) | | Drainage Patterns (B10) |
| Water Marks (B1) | | Aquatic Invertebrate | es (B13) | Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | | Hydrogen Sulfide O | dor (C1) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | | Oxidized Rhizosphe | eres along Living Roots (C3) | Geomorphic Position (D2) |
| Algal Mat or Crust (B4) | | Presence of Reduce | ed Iron (C4) | Shallow Aquitard (D3) |
| Iron Deposits (B5) | | | ion in Plowed Soils (C6) | Fac-Neutral Test (D5) |
| Surface Soil Cracks (B6) | | Stunted or Stressed | l Plants (D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| Inundation Visible on Aerial Ir | magery (B7) | Other (Explain in Re | emarks) | Frost-Heave Hummocks (D7) |
| Sparsely Vegetated Concave | Surface (B8) | | | |
| Field Observations: | | | | |
| Surface Water Present? Yes | No X | Depth (inches): | | |
| Water Table Present? Yes | No X | Depth (inches): | 13 Wetland Hydr | rology Present? |
| Saturation Present? Yes | No X | Depth (inches): | | Yes No X |
| (includes capillary fringe) | | , | | |
| Describe Recorded Data (stream gauge, mo | onitoring well, aerial ph | otos, previous inspections), if a | available: | |
| | | | | |
| | | | | |

Remarks:

| | WETLAND | DETEF | | | RM - Weste | ern Mountains, Val | levs. and Coas | PHS # _ | 7296 |
|-------------------------------|-----------------------|---|---------------------------------|---------------------------------|------------------|--|--|---------------------------------|-----------|
| Project/Site: | Sherwood In | | | City/County: | | ood/Washington | Sampling Date: | - | 2021 |
| | OWRA She | rwood, l | LLC | | | State: | OR | Sampling Point: | 2 |
| vestigator(s): | (| CM/CR | | Section, To | wnship, Range: | Section 29 | D, Township 2Sou | - th, Range 1We | st |
| andform (hillslop | e, terrace, etc.:) | | Slope | • | Local relief (co | ncave, convex, none): | Concave | Slope (%): | 2 |
| ubregion (LRR): | | LRR A | | Lat: | 45.36 | 71 Long: | -122.8269 | Datum: | WGS84 |
| il Map Unit Nan | ne: | | Briedwell s | - stony silt loam | · | NWI Cla | ssification: | None | |
| | logic conditions on | the site ty | | - | Yes | No | X (if no, expl | ain in Remarks) | |
| e vegetation | 0 | | | significantly dist | urbed? | Are "Normal Circumstand | ces" present? (Y/N) | Ŷ | |
| - | Soil | | | | | l, explain any answers in Re | , | | |
| | | - | | , [| | , | | | |
| UMMARY C | F FINDINGS - | - Attac | h site map s | showing san | npling point | locations, transects | , important feat | ures, etc. | |
| drophytic Vege | tation Present? | Yes | X No | | Is Sampled A | roo within | | | |
| dric Soil Preser | nt? | Yes | X No | | a Wetla | | X | No | |
| etland Hydrolog | y Present? | Yes | X No | | | | | | |
| PJ that hydro opes on site | ology is slowly | being di cive to re | verted throug etaining water | gh stormwater r, nor do they | · infrastructur | are present. The site i e and storm facilities. nual sheet flow from p | The geomorphic p | osition of grad | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| ee Stratum (ı | nlot size: | 30) | % cover | Species? | Status | Number of Dominant Spa | | | |
| Populus ba | | <u>, </u> | 50 | x | FAC | Number of Dominant Spe That are OBL, FACW, or | | 3 (| A) |
| 1 000100 00 | | | | <u> </u> | 140 | | | <u> </u> | ,,, |
| | | | | | | Total Number of Dominar | t | | |
| | | | | | | Species Across All Strata | : | 3 | В) |
| | | | 50 | = Total Cover | | | | | |
| pling/Shrub Str | atum (plot size: | 30 |) | | | Percent of Dominant Spe | cies | | |
| Rubus arm | eniacus | | _^ | x | FAC | That are OBL, FACW, or | | 100% | A/B) |
| | | | | | | | | | |
| | | | | | | Prevalence Index Wo | orksheet: | | |
| | | | | | | Total % Cover of | Multiply by | : | |
| | | | | | | OBL Species | x 1 = | 0 | |
| | | | 10 | = Total Cover | | FACW species FAC Species | x 2 = x 3 = | 0 | |
| rb Stratum (I | plot size: 1 | 10) | | | | FACU Species | x 4 = | 0 | |
| Phalaris ar | undinacea | | 80 | x | FACW | UPL Species | x 5 = | 0 | |
| Lotus corn | iculatus | | 5 | | FAC | Column Totals | 0 (A) | 0 (| В) |
| | | | | | | Prevalence Index =I | 3/A =# | DIV/0! | |
| | | | | | | | | | |
| | | | | | | Hydrophytic Vegetat | | anhytia Vagatatian | |
| | | | | | | | 1- Rapid Test for Hydr 2- Dominance Test is | | |
| | | | 85 | = Total Cover | | | 3-Prevalence Index is | | |
| | | | | | | | 4-Morphological Adap | | upporting |
| | | |) | | | | data in Remarks or on | a separate sheet) | |
| ody Vine Strat | um (plot size: | | _/ | | | | | lar Dianta ¹ | |
| oody Vine Strat | <u>um</u> (plot size: | | _) | | | | 5- Wetland Non-Vascu | liar Plants | |
| | <u>um</u> (plot size: | | | | | | Problematic Hydrophy | tic Vegetation ¹ (Ex | |
| Yoody Vine Strat | <u>um</u> (plot size: | | _) 0 | = Total Cover | | | Problematic Hydrophy | tic Vegetation ¹ (Ex | |

| rofile Descri | iption: (Describe to t | he denth i | needed to docume | nt the indi | cator or con | firm the abse | ce of indicators.) | |
|---|--|--|---|---|--|---|--|---|
| Depth | Matrix | | | | x Features | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 7.5YR 2.5/2 | 90 | 7.5YR 5/8 | 5 | С | PL | Silt Loam | Fine |
| 0-4 | | | 7.5YR 5/8 | 5 | С | М | Silt Loam | Fine |
| 4-12 | 10YR 4/3 | 90 | 5YR 4/6 | 10 | С | м | Silty Clay Loam | Medium |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | centration, D=Depletic | n PM-Pc | duced Matrix CS- | Covered or | Coatod San | Graine | | ² Location: PL=Pore Lining, M=Matrix. |
| | Indicators: (Applie | | | | | d Grains. | Indica | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | | Sandy Redo | (95) | indice | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | Stripped Mat | | | Red Parent Material (TF2) |
| | | | | | | | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Black Histic (A3) |) | | | - | | occupi mena I) | Other (explain in Remarks) |
| | Hydrogen Sulfide (A4) Depleted Below Dark | | (11) | | Loamy Gleye | | | |
| | · | | A11) | | Depleted Ma | | | |
| | Thick Dark Surface (A | | | | Redox Dark | | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Mineral | | | | - | k Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix (| (S4) | | | Redox Depre | essions (F8) | | problematic. |
| estrictive | Layer (if present): | | | | | | | |
| ype: | | | | | | | | |
| /po. | | | | | - | | | |
| epth (inches emarks: | · | | | | - | | Hydric Soil Pres | ent? Yes <u>X</u> No |
| epth (inches emarks: | · | 5: | | | - | | Hydric Soil Pres | ent? Yes <u>X</u> No |
| epth (inches emarks: IYDROLO | DGY drology Indicators | | uired: check all th | nat apply) | - | | Hydric Soil Pres | |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | OGY drology Indicators cators (minimum of | | uired; check all th | | | d Leaves (B9) | | Secondary Indicators (2 or more required) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) | f one req | uired; check all th | | | | Hydric Soil Pres | |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | OGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all th | | Water staine 1, 2, 4A, and | 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B | 4 B) 11) | (Except MLRA | Secondary Indicators (2 or more required) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | OGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver | 4B) | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su | 4B) 11) tebrates (B13) lfide Odor (C1 | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) |
| epth (inches emarks: YDROLO /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | <u>f one req</u> :) :2) | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi | 4B) 11) tebrates (B13) lfide Odor (C1 | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery |
| epth (inches emarks: YDROLO /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | <u>f one req</u> :) :2) | uired; check all th | X | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (| (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 | f one req ?) 2) I) | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (| (Except MLRA ng Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) |
| epth (inches emarks: IYDROLO /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req :) 2) 1) B6) | | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA ng Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) |
| YDROLO | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B | f one req 2) 22) 4) B6) Aerial Ima | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants | (Except MLRA ng Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated C | f one req 2) 22) 4) B6) Aerial Ima | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants | (Except MLRA ng Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inches emarks: /YDROLC /etland Hy rimary Indi X | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (F Inundation Visible on J Sparsely Vegetated C | f one req 2) 22) 4) B6) Aerial Ima | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants | (Except MLRA ng Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| IYDROLO | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (f Inundation Visible on A Sparsely Vegetated C vations: Present? Yes | f one req 2) 22) 4) B6) Aerial Ima | gery (B7) ırface (B8) | X Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or St Other (Explai | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants | (Except MLRA Ing Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| ield Obser | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (F Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes | f one req 2) 22) 1) B6) Aerial Ima | gery (B7) ırface (B8) No <u>X</u> | X Depth Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or SI Other (Explai (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) | (Except MLRA Ing Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obser urface Water Vater Table F | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Sent? Yes | f one req 2) 22) 1) B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | X Depth Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of I Recent Iron F Stunted or SI Other (Explai (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) | (Except MLRA Ing Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) rology Present? |
| ield Obser iald obser urface Water /ater Table P aturation Pre acludes capilla | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Sent? Yes | f one req () (2) (2) (2) (2) (2) (2) (2) (2) (2) | gery (B7) ırface (B8) No <u>X</u> No <u>X</u> No <u>X</u> | X Depth Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >12 >12 >12 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) rology Present? |
| ield Obser iald obser urface Water /ater Table P aturation Pre acludes capilla | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on Sparsely Vegetated C vations: r Present? Yes Present? Yes sent? Yes ry fringe) | f one req () (2) (2) (2) (2) (2) (2) (2) (2) (2) | gery (B7) ırface (B8) No <u>X</u> No <u>X</u> No <u>X</u> | X Depth Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >12 >12 >12 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) rology Present? |
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| ield Obser iurface Water /aturation Pre aturation Pre aturation Pre | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on Sparsely Vegetated C vations: r Present? Yes Present? Yes sent? Yes ry fringe) | f one req () (2) (2) (2) (2) (2) (2) (2) (2) (2) | gery (B7) ırface (B8) No <u>X</u> No <u>X</u> No <u>X</u> | X Depth Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >12 >12 >12 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) rology Present? |

| | WETLAND | DETER | MINATION | I DATA FO | RM - Weste | rn Mountains, Vall | eys, and Coa | st Region | |
|---------------------|-------------------|-----------------|---------------------|----------------------|---------------------|---|--|---------------------------------|-----------|
| Project/Site: | Sherwood I | Industrial | Park | City/County: | Sherwo | od/Washington | Sampling Date: | 9/22 | /2021 |
| pplicant/Owner: | OWRA Sh | erwood, L | LC | | | State: | OR | Sampling Point: | 3 |
| vestigator(s): | | JT/CM | | Section, To | wnship, Range: | Section 29 |), Township 2So | uth, Range 1We | est |
| andform (hillslope, | , terrace, etc.:) | | Slope | | Local relief (cor | cave, convex, none): | None | Slope (%): | 10 |
| ubregion (LRR): | | LRR A | | Lat: | 45.366 | 6 Long: | -122.8292 | Datum: | WGS84 |
| oil Map Unit Name | e: | | Quata | ma loam | | NWI Clas | ssification: | None | |
| re climatic/hydrolo | gic conditions c | on the site typ | pical for this tim | e of year? | Yes | No | X (if no, ex | olain in Remarks) | |
| re vegetation | K Soil | or Hyd | rology X | significantly dist | urbed? | Are "Normal Circumstanc | es" present? (Y/N) | Y | |
| re vegetation | Soil | or Hyd | rology | naturally problem | matic? If needed, | explain any answers in Rer | marks.) | | |
| | | | | - | | | | | |
| UMMARY OF | FINDINGS | | | showing san | npling point | locations, transects | , important fea | tures, etc. | |
| ydrophytic Vegeta | | Yes | X No | | Is Sampled Ar | ea within | | | |
| ydric Soil Present | ? | Yes | No | <u> </u> | a Wetlan | | | No X | |
| etland Hydrology | Present? | Yes | No | Χ | | | | | |
| | - | | | | | ve make sure to evalua | - | | |
| | | | | | | re present. The site is storm facilities. The g | | | |
| | - | - | - | | | et flow from pervious | | - | |
| EGETATION | - Use scien | ntific nam | es of plant | s. | | | | | |
| | | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test worl | ksheet: | | |
| ee Stratum (pl | ot size: |) | | Species | Status | Number of Dominant Spec | ies | | |
| (| | | | | | That are OBL, FACW, or F | | 2 | (A) |
| | | | | | | | | | () |
| | | | | | | Total Number of Dominant | t | | |
| | | | | | | Species Across All Strata: | | 2 | (B) |
| | | | 0 | = Total Cover | | | | | |
| apling/Shrub Strat | tum (plot size | e: 30 |) | | | Percent of Dominant Spec | ies | | |
| Rubus arme | niacus | | 10 | X | FAC | That are OBL, FACW, or | FAC: | 100% | (A/B) |
| | | | | | | | | | |
| | | | | | | Prevalence Index Wo | rksheet: | | |
| | | | | | | Total % Cover of | Multiply b | by: | |
| | | | | | | OBL Species | x 1 = | | |
| | | | 10 | = Total Cover | | FACW species | x2= | | |
| erb Stratum (pl | ot size: | 10) | | | | FAC Species FACU Species | x 3 = x 4 = | | |
| Unidentified | | / | 60 | x | (FAC) | UPL Species | x 5 = | | |
| Plantago lan | - | | 10 | | FACU | Column Totals | 0 (A) | | (B) |
| Madia glome | erata | | 10 | | FACU | - | | | |
| Daucus caro | ota | | 10 | | FACU | Prevalence Index =B | 3/A = | #DIV/0! | |
| Dipsacus fu | llonum | | 5 | | FAC | | | | |
| Leontodon s | saxatilis | | 5 | | FACU | Hydrophytic Vegetati | on Indicators: | | |
| | | | | | | | - Rapid Test for Hyd | Irophytic Vegetation | n |
| | | | | | | | 2- Dominance Test is | | |
| | | | 100 | = Total Cover | | | B-Prevalence Index is I-Morphological Ada | | upporting |
| oody Vine Stratur | m (plot size: | |) | | | | lata in Remarks or c | | |
| | <u>.</u> . | | , | | | | - Wetland Non-Vas | • . | / |
| | | | | | | F | Problematic Hydroph | ytic Vegetation ¹ (E | xplain) |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil ar | | | |
| | | | | | | disturbed or problematic. | | | |
| Bare Ground in F | lerh Stratum | C | 'n | | | Hydrophytic Vegetation | Yes X | No | |
| Dare Ground in F | Terb Stratum | |) | | | - | | | |
| | | | | | | Present? | | | |

| Profile Decrytains: Descrite to the digth resided is document the indicator or confirm the absance of indicators.] Parkit Mattix Research Faulthere (introde) Color (most) % Type Loc Introduce Remarks 0-8 7.5YR 344 00 % Type Loc Nill Learn Prine, 20% gravel; mixed matrix 8-16 10YR 64 30 10YR 64 5 C M Loarn Fine, 20% gravel; mixed matrix 8-16 10YR 64 30 10YR 64 5 C M Loarn Fine, 20% gravel; mixed matrix 1 1 Loarn Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix 1 1 Loarn Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix 1 1 Loarn Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix 1 1 Loarn Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix 1 1 Loarn Fine, 20% gravel; mixed matrix Fine, 20% gravel; mixed matrix | SOIL | | | PHS # | 7296 | 6 | | | Sampling Point: 3 |
|---|--|---|--|--|---|---|--|--|--|
| Index Color (mode) N Type? Los" Texture Demarks 0-8 7.5YR 3/4 00 10YR 4/6 5 C M Loam File; 20% gravel; mixed matrix 8-16 10YR 6/4 30 10YR 4/6 5 C M Loam File; 20% gravel; mixed matrix 8-16 10YR 6/4 30 10YR 4/6 5 C M Loam File; 20% gravel; mixed matrix 9 10YR 6/4 30 10YR 4/6 5 C M Loam File; 20% gravel; mixed matrix 9 10YR 6/4 30 10YR 6/4 5 C M Loam File; 20% gravel; mixed matrix 10 1 | • | • | the depth r | needed to docume | | | firm the absend | ce of indicators.) | |
| 0-3 7.3 YR 3/4 100 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 8-16 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 8-16 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-10 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-11 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-11 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-11 20 YR 10 YR 6/4 30 10 YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-11 10 YR 6/4 30 10 YR 4/6 S C M Loam Yees YBA | | | 0/ | Calar (maint) | | | 1.002 | Texture | Demorize |
| 8-16 7.5YR 3/4 60 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 8-16 10YR 6/4 30 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-16 10YR 6/4 30 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-17 10YR 6/4 30 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-17 10YR 6/4 30 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-17 10YR 6/4 30 10YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix 9-17 10YR 6/4 10 | | | | Color (moist) | 70 | туре | LUC | | |
| 8-16 19YR 6/4 30 19YR 4/6 5 C M Loam Fine; 20% gravel; mixed matrix Type: C:-Concentration, D:-Depletion, RM-Reduced Matrix, C3:-Covered of Coated Sand Grane. *Location: PL-Pore Lining, M-Matrix, Hydric Soils*: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histo Epipodon (A2) Shipped Matrix (B3) Red Ream Matrix, (T2) Biask Hask (A3) Loarry Gloyed Matrix (T2) Other (explain in Remarks) Depleted Betro Dark Surface (A1) Depleted Matrix (T3) Other (explain in Remarks) Bardy Mady Micro (A4) Loarry Gloyed Matrix (T2) Other (explain in Remarks) Bardy Gloyed Matrix (S4) Redox Depressions (F8) *Indicators of hydrophysic regulation and wetland trybology must be seen of the explained in Remarks) Depleted Batrix Guide Call Redox Depressions (F8) *Indicators (2 or more required) Soli Is disturbed, but also there are no hydrology inputs outside of seesonal direct precipitation. At that point, the water Infiltrates so quickly more service (B1) Water stained Leaves (B2) MURA 10 Hydrology Indicators: Yes No X Primary Kite (A1) Salt Call Call (11) Depleted Leaves (B2) Salt Call (11) Depleted Batry Matri | | | | | | | | | |
| "Type: C=Consertration, D=Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. *Coaton: PL=Pow Lining, M=Matrix, Medical Matrix, CS=Covered or Coated Sand Grains. "Type: C=Consertration, D=Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. *Coaton: PL=Pow Lining, M=Matrix, Medical Matrix, CS=Covered or Coated Sand Grains. "Helice Depoles (A2) Simple Reduce, (S5) | | | | | | | | | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosid (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosid (A2) Singpod Matrix (S0) Red Prevent Material (TF2) Update Histo (A3) Loamy Gleyed Matrix (C2) Other (explain in Remarks) Depleted Blow Dark Surface (A12) Red zeront. Material (TF2) Other (explain in Remarks) Sandy Macky Mineral (S1) Depleted Dark Surface (TF12) Trick Dark Surface (A12) Redox Dark Surface (F7) Sandy Gleyed Matrix (C3) Redox Dark Surface (F7) "Indicators of hytrophytic vegetation and wetland hydrology inputs outside of seasonal direct precipitation. At that point, the water infiltrates so quickly from being upslope that hydric soils cannot sustain. HYDROLOGY Secondary Indicators (2 or more required) Matrixe (R3) Mater stained Leaves (R3) (Except MLRA Water stained Leaves (R3) (Except MLRA Hydrice Soil I disturbed (A3) Satic Crus (B1) Derive and the canada (B1) Derive and the canada (B1) Sufface Water (A1) Water stained Leaves (R3) (Except MLRA Water stained Leaves (R3) (Except MLRA) Water stained Leaves (R3) (MLRA) (2, 4, and 4B) Derive and MLA (2, 4, | 8-16 | 101R 6/4 | | 101R 4/6 | | <u> </u> | | Loam | Fine; 20% gravel; mixed matrix |
| bydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histeso((A1) Sandy Redx (S5) 2 cm Mack (A10) Histeso((A1) Sandy Redx (S5) 2 cm Mack (A10) Black Histic (A3) Learny Gleyed Matrix (S1) Very Shallow Dark Surface (TF 12) Hydrogen Sufface (A11) Depleted Matrix (F2) Cher (explain in Remarks) Depleted Blacw Dark Surface (A11) Depleted Matrix (F2) ************************************ | | | | | | | | | |
| Histosol (A1) | | | | | | | | | |
| Histic Epipedon (A2) Stipped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Macky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Depieded Below Dark Surface (A11) Depieded Matrix (F2) Other (explain in Remarks) Sandy Mucky Mineral (S1) Depieded Dark Surface (F6) "indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." Restrictive Layer (If present): | - | | cable to | all LRRs, unles | | | | Indic | - |
| Black Histo (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depieted Below Dark Surface (A12) Redox Dark Surface (F7) ************************************ | | | | | | - | | | |
| Hydrogen Suffice (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic wegetation and wetland frydrology must be present, trailes disturbed or problematic." Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) "Indicators of hydrophytic wegetation and wetland frydrology must be present, trailes disturbed or problematic." Restrictive Layer (if present): | ł | Histic Epipedon (A2) | | | | | | | |
| Depleted Below Dark Surface (A12) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Hydric Soil Present? Yes NoX Papeth (inches): Hydric Soil Present? Yes NoX Papeth (inches): Hydric Soil Present? Yes NoX Primary Indicators (Ininimum of one required; check all that apply) Secondary Indicators (2 or more required) Yurface Water (A1) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Daylate Carts (B1) Saturation (A3) Saturation (A3) Daylate Carts (B1) Diff Deposits (B3) Oxidae Rhizospheres along Living Roots (C3) Genomorphic Position (D2) Surface Water (A1) Presence of Reduced tron (C4) Shall or Clust (B4) Presence of Reduced tron (C4) Surface Soil Coracks (B6) Sturted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Mater Table Oncoare Surface (B8) Depth (inches): >16 Surface Soil Coracks (B6) Sturted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LR | E | Black Histic (A3) | | | Lo | amy Muck | y Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| Trick Dark Surface (A12) Redox Dark Surface (F6) Papeleed Dark Surface (F7) Patient Surface (F8) Patien Surface (F8) Patient Surface (F8) <td>H</td> <td>Hydrogen Sulfide (A4</td> <td>.)</td> <td></td> <td>Lo</td> <td>oamy Gleye</td> <td>ed Matrix (F2)</td> <td></td> <td>Other (explain in Remarks)</td> | H | Hydrogen Sulfide (A4 | .) | | Lo | oamy Gleye | ed Matrix (F2) | | Other (explain in Remarks) |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) ^a Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problemate. Restrictive Layer (if present): Type: | C | Depleted Below Dark | Surface (A | 411) | De | epleted Ma | ıtrix (F3) | | |
| Sandy Gloged Mark (S1) | 1 | Thick Dark Surface (/ | A12) | | Re | edox Dark | Surface (F6) | | a |
| Sandy Gleyed Matrix (S4) | | Sandy Mucky Minera | l (S1) | | De | epleted Da | rk Surface (F7) | | |
| Type: | | Sandy Gleyed Matrix (S4) | | | | edox Depre | essions (F8) | | |
| Prepth (inches): Hydric Soil Present? Yes No X temarks: Soil is disturbed, but also there are no hydrology inputs outside of seasonal direct precipitation. At that point, the water infiltrates so quickly room being upslope that hydric soils cannot sustain. No X HYDROLOGY | Restrictive L | ayer (if present) | : | | · | | | | |
| kernarks: Soli is disturbed, but also there are no hydrology inputs outside of seasonal direct precipitation. At that point, the water infiltrates so quickly rom being upslope that hydric soils cannot sustain. HYDROLOGY Vetland Hydrology Indicators: Primary Indicators (2 or more required); check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Water Marks (B1) Aquatic Invertebrates (B13) Orift Deposits (B2) Hydrogen Suffice Odor (C1) Saturation (Visible on Aerial Imagery (D Secondary Indicators (C2) Statrace Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) It non Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: No X water Table Present? No X Vater Table Present? No X Vater Table Present? No X | уре: | | | | | | | | |
| kernarks: Soli is disturbed, but also there are no hydrology inputs outside of seasonal direct precipitation. At that point, the water infiltrates so quickly rom being upslope that hydric soils cannot sustain. HYDROLOGY Vetland Hydrology Indicators: Primary Indicators (2 or more required); check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Water Marks (B1) Aquatic Invertebrates (B13) Orift Deposits (B2) Hydrogen Suffice Odor (C1) Saturation (Visible on Aerial Imagery (D Secondary Indicators (C2) Statrace Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) It non Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: No X water Table Present? No X Vater Table Present? No X Vater Table Present? No X | | | | | | | | | |
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| High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (D2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Deptin (inches): >16 Yes No X Depth (inches): >26 No X Deptic Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | Remarks: Soil is distur from being t HYDROLO | rbed, but also th upslope that hyd GY | ric soils (| | | e of seas | onal direct p | - | |
| Ingit Prater Table (P2) Saturation (A3) | Remarks: Soil is distur from being t HYDROLOO Wetland Hyd | rbed, but also th upslope that hyd GY drology Indicator | ric soils (s: | cannot sustain. | | e of seas | onal direct p | - | hat point, the water infiltrates so quickly |
| Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (P Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Pervious inspections), if available: | Remarks: Soil is distur from being t HYDROLO Wetland Hyd Primary Indic | rbed, but also th upslope that hyd GY trology Indicator ators (minimum o | ric soils (s: | cannot sustain. | hat apply) | | | recipitation. At t | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) |
| Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (in C2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): Depth (inches): Surface Water Present? Yes No X Vater Table Present? Yes No X Depth (inches): >16 Yes No X Depth Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <td>Remarks: Soil is distur from being u HYDROLO Metland Hyc Primary Indic</td> <td>rbed, but also th upslope that hyd GY drology Indicator ators (minimum o Surface Water (A1)</td> <td>ric soils o rs: of one requ</td> <td>cannot sustain.</td> <td>hat apply) W</td> <td>ater staine</td> <td>ed Leaves (B9) (I</td> <td>recipitation. At t</td> <td>hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9)</td> | Remarks: Soil is distur from being u HYDROLO Metland Hyc Primary Indic | rbed, but also th upslope that hyd GY drology Indicator ators (minimum o Surface Water (A1) | ric soils o rs: of one requ | cannot sustain. | hat apply) W | ater staine | ed Leaves (B9) (I | recipitation. At t | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) |
| Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Teppth (inches): Vettand Hydrology Present? Field Observations: No X Depth (inches): >16 Surface Vater Present? Yes No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 Decorribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Vetland Hydrology Present? No X | Remarks: Soil is distur rom being t HYDROLO Vetland Hyc Primary Indic | rbed, but also the upslope that hyde GY drology Indicator ators (minimum o Surface Water (A1) High Water Table (A2 | ric soils o rs: of one requ | cannot sustain. | hat apply) W | ater staine 2, 4A, and | ed Leaves (B9) (I 1 4B) | recipitation. At t | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Pepth (inches): No X Field Observations: Surface Water Present? Yes No X Depth (inches): >16 Water Table Present? Yes No X Depth (inches): >16 Yes No X Includes capillary fringe) Depth (inches): >16 Yes No X Depth Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | Remarks: Soil is distur from being t HYDROLO Wetland Hyd Primary Indic | rbed, but also th upslope that hyd GY trology Indicator sators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) | ric soils o rs: of one requ | cannot sustain. | hat apply) W 1, Sa | later staine 2, 4A, and alt Crust (B | ed Leaves (B9) (I i 4B) 111) | recipitation. At t | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) |
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| Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Teld Observations: Frost-Heave Hummocks (D7) Field Observations: No X Depth (inches): >16 Water Table Present? Yes No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 Securition Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Yes No X | Remarks: Soil is distur from being u HYDROLOO Wetland Hyc Primary Indic Frimary Indic | rbed, but also the upslope that hyd GY drology Indicator ators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | ric soils of rs: of one req 2) | cannot sustain. | hat apply) W 1, Sa Ac | 'ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su | ed Leaves (B9) (I 1 4B) 111) rtebrates (B13) ulfide Odor (C1) | Except MLRA | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Second Se | Remarks: Soil is distur from being to HYDROLOO Wetland Hyd Primary Indic Primary Indic | rbed, but also the upslope that hyde GY trology Indicator sators (minimum o Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | ric soils of rs: of one requ 2) 32) | cannot sustain. | hat apply) | 'ater staine 2, 4A, anc alt Crust (B quatic Inve ydrogen Su xidized Rhi | d Leaves (B9) (I 1 4B) it1) rtebrates (B13) ulfide Odor (C1) izospheres along | Except MLRA | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): >16 Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturations in the stream gauge in t | Remarks: Soil is distur from being u HYDROLO Wetland Hyd Primary Indic Primary Indic | rbed, but also the upslope that hyde GY drology Indicator sators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- | ric soils of rs: of one requ 2) 32) | cannot sustain. | hat apply) W 1, Sa Ac Ac Op Pr | [/] ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su ydrogen Su xidized Rhi resence of | ed Leaves (B9) (I i 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres alonç Reduced Iron (C | Except MLRA | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) |
| Field Observations: Surface Water Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Includes capillary fringe) No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturations) Yes No X | Remarks: Soil is distur from being u HYDROLOG Wetland Hyc Primary Indic S S S S S S S S S S S S S S S S S S S | rbed, but also the upslope that hyde GY drology Indicator eators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) | ric soils (rs: of one req 2) 32) 4) | cannot sustain. | hat apply) W 1, Sa Ac Hy O Pr Re | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I | ed Leaves (B9) (I 1 4B) 111) rtebrates (B13) Ilfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo | Except MLRA | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| Surface Water Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Nater Table Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Previous inspections), if available: Previous inspections) Previous inspections) Previous inspections) | Remarks: Soil is distur from being u HYDROLOO Wetland Hyc Primary Indio | rbed, but also the upslope that hyd GY drology Indicator ators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (| ric soils (rs: of one req 2) 32) 4) (B6) | cannot sustain. | hat apply) W 1, Ac Ac Hy O Pr Re St | later staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S | ed Leaves (B9) (I i 4B) (11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X includes capillary fringe) No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Statistical photos, previous inspections), if available: Statistical photos, previous inspections), if available: | Remarks: Soil is distur from being u HYDROLO Wetland Hyd Primary Indic Primary Indic S S S S S S S S S S S S S S S S S S S | rbed, but also the upslope that hyde GY trology Indicator cators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (nundation Visible on | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag | uired; check all t | hat apply) W 1, Ac Ac Hy O Pr Re St | later staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S | ed Leaves (B9) (I i 4B) (11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Saturation Present? Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: So Yes No X | Remarks: Soil is distur from being u HYDROLOG Wetland Hyc Primary Indic Primary Indic S S S S S S S S S S S S S S S S S S S | rbed, but also the upslope that hyde GY drology Indicator eators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B ron Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated (| ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag | uired; check all t | hat apply) W 1, Ac Ac Hy O Pr Re St | later staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S | ed Leaves (B9) (I i 4B) (11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | Remarks: Soil is distur from being u HYDROLO Wetland Hyd Primary Indic Primary Indic S H S S S S S S S S S S S S S S S S S | rbed, but also the upslope that hyde GY drology Indicator sators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated (vations: | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag | uired; check all th guired; check all th gery (B7) urface (B8) | hat apply) W 1, Sa Ac Hy O Pr Re St Ot | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su ydrogen | ed Leaves (B9) (I i 4B) (11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | Remarks: Soil is distur from being u HYDROLOG Wetland Hyd Primary Indic Primary Indic S Field Observ Surface Water | rbed, but also the upslope that hyde GY drology Indicator eators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B orift Deposits (B3) Algal Mat or Crust (B orift Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated O vations: Present? Yes | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag | uired; check all th gery (B7) urface (B8) | hat apply) W 1, Sa Ac Ac Pr O Pr Re St Ot Depth (in | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S ther (Expla | ed Leaves (B9) (I i 4B) 111) Iftebrates (B13) Ilfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) | Except MLRA Except MLRA (C3) (C4) (C4) (C6) D1) (LRR A) | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| emarks: | Remarks: Soil is distur from being u HYDROLOG Wetland Hyc Primary Indic Primary Indic Second Second Field Observ Surface Water Nater Table Pr Saturation Pres | rbed, but also the upslope that hyde GY drology Indicator eators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B on Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated Of vations: Present? Yes sent? Yes | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag | uired; check all th uired; check all th gery (B7) urface (B8) No X No X | hat apply) W 1, Sa Ac Hy O Pr Re St St Ot Depth (in Depth (in | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S ther (Expla | ed Leaves (B9) (I 4 4B) (11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) > 16 | Except MLRA Except MLRA (C3) (C4) (C4) (C6) D1) (LRR A) | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| emarks: | Remarks: Soil is distur from being u HYDROLOO Wetland Hyo Primary Indic Primary Indic Primary Indic Set State Field Observ Surface Water Vater Table Pressincludes capillary | rbed, but also the upslope that hyd GY drology Indicator ators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated O vations: Present? Yes resent? Yes resent? Yes resent? Yes | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag Concave Su | uired; check all the second sustain. | hat apply) W 1, Sa Ac Ac O Pr Re St Ot Depth (in Depth (in Depth (in | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S ther (Expla nches): | ed Leaves (B9) (I 1 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >16 >16 >16 | Except MLRA Except MLRA (2) (24) (24) (24) (23) (24) (23) (24) (23) (23) (23) (23) (23) (23) (23) (23 | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| | Remarks: Soil is distur from being u HYDROLOO Wetland Hyo Primary Indic Primary Indic Primary Indic Set State Field Observ Surface Water Vater Table Pressincludes capillary | rbed, but also the upslope that hyd GY drology Indicator ators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated O vations: Present? Yes resent? Yes resent? Yes resent? Yes | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag Concave Su | uired; check all the second sustain. | hat apply) W 1, Sa Ac Ac O Pr Re St Ot Depth (in Depth (in Depth (in | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S ther (Expla nches): | ed Leaves (B9) (I 1 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >16 >16 >16 | Except MLRA Except MLRA (2) (24) (24) (24) (23) (24) (23) (24) (23) (23) (23) (23) (23) (23) (23) (23 | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| | Remarks: Soil is distur From being u HYDROLOO Wetland Hyc Primary Indic Primary Indic Pri | rbed, but also the upslope that hyd GY drology Indicator ators (minimum of Surface Water (A1) digh Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B- ron Deposits (B5) Surface Soil Cracks (nundation Visible on Sparsely Vegetated O vations: Present? Yes resent? Yes resent? Yes resent? Yes | ric soils (rs: of one req 2) 32) 4) (B6) Aerial Imag Concave Su | uired; check all the second sustain. | hat apply) W 1, Sa Ac Ac O Pr Re St Ot Depth (in Depth (in Depth (in | ater staine 2, 4A, and alt Crust (B quatic Inve ydrogen Su xidized Rhi resence of ecent Iron I cunted or S ther (Expla nches): | ed Leaves (B9) (I 1 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >16 >16 >16 | Except MLRA Except MLRA (2) (24) (24) (24) (23) (24) (23) (24) (23) (23) (23) (23) (23) (23) (23) (23 | hat point, the water infiltrates so quickly Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

| | WETLAND | | | | RM - Weste | ern Mountains, Vall | evs. and Coas | PHS # _ st Region | 7296 |
|---------------------------------|--|---------------------------------------|---|---|-----------------------------------|--|-----------------------------------|-----------------------------------|---------------|
| Project/Site: | Sherwood | | | City/County: | | ood/Washington | Sampling Date: | - | 2021 |
| Applicant/Owner: | OWRA Sh | | | - j j | | State: | OR | Sampling Point: | 4 |
| Investigator(s): | | CM/CR | | Section, To | wnship, Range: | <u> </u> | D, Township 2Sou | | st |
| Landform (hillslope | e, terrace, etc.:) | | Ditch | - | | ncave, convex, none): | None | Slope (%): | 10 |
| Subregion (LRR): | , | LRR A | 1 | Lat: | 45.36 | · · · · - | -122.8283 | Datum: | WGS84 |
| Soil Map Unit Nam | ne: | | | silt loam | | | ssification: | None | |
| Are climatic/hydrol | | on the site ty | | | Yes | No | X (if no, exp | | |
| Are vegetation | 0 | - | | significantly dist | | Are "Normal Circumstanc | | · · · · | |
| Are vegetation | | _ | | | | l, explain any answers in Rei | , | <u> </u> | |
| | | | | | | | naixs.) | | |
| SUMMARY O | F FINDINGS | – Attac | h site map s | showing sar | npling point | locations, transects | , important feat | ures, etc. | |
| Hydrophytic Veget | tation Present? | Yes | X No | | | | | | |
| Hydric Soil Presen | nt? | Yes | No | х | Is Sampled An a Wetlar | | | No X | |
| Wetland Hydrolog | y Present? | Yes | No | Х | | - | | | |
| Remarks: P | Procinitation is | s below n | ormal which | is now comm | on As such | we make sure to evalu | ato a dru-soason | water table in a | aroas of |
| lower topogra BPJ that hydro | phy, or in are blogy is slowly are not condu | as where / being di ucive to re | hydrophytic verted throug etaining wate | vegetation an gh stormwate r, nor do they | d hydric soils r infrastructur | are present. The site is e and storm facilities. nual sheet flow from po | s surrounded by The geomorphic | new developme position of grad | nt. It is our |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| / | | | % cover | Species? | Status | | | | |
| Tree Stratum (p | | 30) | ~~ | | | Number of Dominant Spec | | _ | |
| 1 Populus ba | Isamitera | | 20 | <u> </u> | FAC | That are OBL, FACW, or I | -AC: | 5 (| (A) |
| 2 | | | | | | Total Number of Deminen | | | |
| 3 | | | | | | Total Number of Dominan Species Across All Strata: | | 7 (| (B) |
| | | | 20 | = Total Cover | | opecies Across Air Otrata. | | (| |
| 0 1: /01 1 0: | | | | | | | | | |
| Sapling/Shrub Stra | | e: 30 | _) | v | 540 | Percent of Dominant Spec | | 740/ | |
| 1 Rubus arm 2 Populus ba | | | <u>80</u> 20 | <u> </u> | FAC FAC | That are OBL, FACW, or | FAC: | 71% (| (A/B) |
| 3 Cytisus sco | | | 20 | | (UPL) | Prevalence Index Wo | rksheet. | | |
| 4 | panas | | 20 | | | Total % Cover of | Multiply by | V. | |
| 5 | | | | | | OBL Species | x 1 = | <u>,.</u> 0 | |
| · | | | 120 | = Total Cover | | FACW species | x 2 = | | |
| | | | | | | FAC Species | x 3 = | 0 | |
| Herb Stratum (p | olot size: | 10) | | | | FACU Species | x 4 = | 0 | |
| 1 Phalaris are | undinacea | | 10 | X | FACW | UPL Species | x 5 = | 0 | |
| 2 Dactylis glo | | | 10 | <u> </u> | FACU | Column Totals | 0 (A) | 0 (| B) |
| 3 Equisetum | | | 10 | <u> </u> | FAC | | | | |
| 4 Cirsium arv | /ense | | 10 | <u> </u> | FAC | Prevalence Index =E | 3/A = | #DIV/0! | |
| 5 | | | | | | Lludrophutic Vogototi | on Indiantora | | |
| 6 | | | | | | Hydrophytic Vegetati | I- Rapid Test for Hyd | rophytic Vogotation | |
| 8 | | | | | | | 2- Dominance Test is | | |
| · | | | 40 | = Total Cover | | | 3-Prevalence Index is | | |
| | | | | | | | 1-Morphological Adap | | upporting |
| Woody Vine Stratu | um (plot size: | |) | | | | data in Remarks or or | ו a separate sheet) | |
| 1 Rubus ursi | nus | | 30 | Х | FACU | | 5- Wetland Non-Vasc | ular Plants ¹ | |
| 2 | | | | | | F | Problematic Hydrophy | /tic Vegetation ¹ (Ex | plain) |
| | | | 30 | = Total Cover | | ¹ Indicators of hydric soil ar | nd wetland hydrology | must be present, u | nless |
| | | | | | | | | | |
| % Bare Ground in | Herb Stratum | (| 60 | | | Vegetation | Yes X | No | |
| Pomarka | | | | | | Present? | | | |
| % Bare Ground in Remarks: | Herb Stratum | (| | = Total Cover | | disturbed or problematic. Hydrophytic | | | n |

| Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Type: | Remarks Fine Fine Pine 2 ² Location: PL=Pore Lining, M=Matrix. iccators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
|---|--|
| Calar (moist) % Color (moist) % Type ¹ Loc ² Texture 9-1 7.5YR 2.5/2 100 Silt Leam Silt Leam 9-11 7.5YR 2.5/2 98 7.5YR 3/4 2 C M Silt Leam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Leam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Leam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Leam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Leam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Leam 11-16 7.5YR 3/4 10 C M Silt Leam Silt Leam 11 5 3 5 Silt Leam Silt Leam Silt Leam 11 11 Sandy Redox (S5) Silt Leam Silt Leam </th <th>Fine Fine Pine ²Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)</th> | Fine Fine Pine ² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Cosp 7.5YR 2.5/2 100 <t< th=""><th>Fine Fine Pine ²Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)</th></t<> | Fine Fine Pine ² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| 9-11 7.5YR 2.5/2 98 7.5YR 3/4 2 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam 11-16 7.5YR 2.5/2 90 7.5YR 3/4 1 C M Silt Loam 11 Histocol (A1) Sandy Redvol (S5) Stripped Matrix (S6) Exert MLRA 1) Loamy Gleyed Matrix (F2) Depleted Dark Surface (F6) Depleted Matrix (F2) Redox Dark Surface (F6) Strifted Watrix (F3) Redox Dark Surface (F7) Saft Case (F7) | Fine ² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) 2 very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| 11.16 7.5YR 2.5/2 90 7.5YR 3/4 10 C M Silt Loam Image: Silt Loam Image: Silt Loam Image: Silt Loam Image: Silt Loam Image: Silt Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Image: Sitt Loam Image: Sitt Loam Histosol (A1) Sandy Redox (S5) Stripped Matrix (S6) Image: Sitt Loam Histosol (A1) Sandy Redox (S5) Stripped Matrix (S6) Image: Sitt Loam Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Image: Sitt Loam Image: Sitt Loam Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Image: Sitt Loam Image: Sitt Loam Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Image: Sitt Loam Image: Sitt Loam Hydric Soil Indicators (A1) Depleted Matrix (F2) Depleted Matrix (F3) Image: Sitt Loam Sandy Gleyed Matrix (S4) Redox Depressions (F8) Image: Sitt Loam Image: Sitt Loam Restrictive Layer (If present): Image: Sitt Loam Image: Sitt Loam Image: Sitt Loam Satt Cause (Matrix (S4) Redox Depressions (F8) Sitt Loam Image: Sitt Loam Surface | Fine ² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) 2 very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histosol (A1) Sandy Redox (S5) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depleted Depleted Selow Dark Surface (A11) Water stained Leaves (B9) (Except MLRA 1) Hydric Soil I Redox Depressions (F8) Restrictive Layer (if present): Type: Depleted Depleted Selow Dark Surface (A11) Water stained Leaves (B9) (Except MLRA 1) Mydric Soil I Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Water Marks (B1) Aqualit Invertebrates (B13) Fedeuced Iron (C4) Mage Matro Crust (B4) Presence of Reduced Iron (C4) Presence of Reduced Iron (C4) | ² Location: PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) In Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (If present): Type: Depth (inches): | icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) In Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (If present): Type: Depth (inches): | icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) In Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Suffice (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (If present): Type: Type: Depth (inches): Trimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Wetland Hydrology Indicators: Water stained Leaves (B9) (Except MLRA 1) HyDROLOGY Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C4) Kereent Iron Reduction in Plowed Soils (C6) Sturface Soil Cracks (B6) Surface Soil Cracks (B6) Sturface Sturgen or Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) < | icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) In Histosol (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Fype: Type: | icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) In Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (If present): Type: Type: | icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Type: | 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depleticators (minimum of one required; check all that apply) Hydric Soil I Remarks: Watard Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Sattration (A3) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Satt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Mydrogen Sulfide Odor (C1) Drift Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C4) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain i | Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil I Remarks: Hydric Soil I Wetland Hydrology Indicators: Hydric Soil I Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) | Very Shallow Dark Surface (TF12) Other (explain in Remarks) |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Type: | Other (explain in Remarks) |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil I Remarks: Hydric Soil I Wetland Hydrology Indicators: Hydric Soil I Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Sat Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil I Remarks: HyDROLOGY Wetland Hydrology Indicators: Hydric Soil I Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Hydroge Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil I Remarks: Hydric Soil I Remarks: Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C4) Iron Deposits (B5) Recent Iron Reduced Iron (C4) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | • • • • • • • • • • • • • • • • • • • |
| Restrictive Layer (if present): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (Ca) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Type: Depth (inches): HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (C1) Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: | problematic. |
| Depth (inches): Hydric Soil I Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Depth (inches): Hydric Soil I Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (Calication (C4)) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | esent? Yes No X |
| HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Secondary Indicators (2 or more required) |
| Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (I Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Saturation Visible on Aerial Imagery |
| Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Shallow Aquitard (D3) |
| Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Fac-Neutral Test (D5) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: | Raised Ant Mounds (D6) (LRR A) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: | |
| | |
| Surface Water Present? Yes No X Depth (inches): | Frost-Heave Hummocks (D7) |
| | |
| Water Table Present? Yes No X Depth (inches): >16 Wetland | |
| Saturation Present? Yes No X Depth (inches): >16 | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | Frost-Heave Hummocks (D7) |
| | Frost-Heave Hummocks (D7) |
| | Frost-Heave Hummocks (D7) |
| | Frost-Heave Hummocks (D7) |
| Remarks: | Frost-Heave Hummocks (D7) |

| | WETLAND | DETEF | RMINATION | | RM - Weste | ern Mountains, Val | leys, and Coa | PHS # _ st Region | 7296 |
|---|-------------------------------------|-------------------------|---------------------------------|---------------------------------|-----------------------------------|--|--|---|---|
| roject/Site: | Sherwood I | | | City/County: | | ood/Washington | Sampling Date: | | /2021 |
| - pplicant/Owner: | | | | | | State: | | Sampling Point: | 5 |
| vestigator(s): | | CR/CM | | Section, Tc | wnship, Range: | Section 29 | D, Township 2So | | est |
| | oe, terrace, etc.:) | | Terrace | - | | ncave, convex, none): | Concave | Slope (%): | 3 |
| ubregion (LRR): | | LRR A | | Lat: | 45.36 | · · · · · | -122.8282 | Datum: | WGS84 |
| bil Map Unit Na | | | | ilty clay loam | | | assification: | None | |
| - | plogic conditions c | on the site tv | | | Yes | | | blain in Remarks) | |
| re vegetation | 0 | | vdrology X | | | Are "Normal Circumstand | | , | |
| - | Soil | | | | | d, explain any answers in Re | , | <u> </u> | |
| - | | , | | , , | 11440 | , oppani any anon | mano., | | |
| UMMARY (| of Findings | – Attac | h site map s | howing san | npling point | locations, transects | s, important feat | tures, etc. | |
| ydrophytic Vege | etation Present? | Yes | X No | | Is Sampled A | within | | | |
| lydric Soil Prese | nt? | Yes | X No | | a Wetla | | x | No | |
| /etland Hydrolog | gy Present? | Yes | X No | | | | | | |
| ower topogra | aphy, or in area ology is slowly | as where y being div | hydrophytic v iverted throug | vegetation and gh stormwater | d hydric soils r infrastructur | we make sure to evalu are present. The site i re and storm facilities. nual sheet flow from p | s surrounded by The geomorphic | new developme position of grac | ent. It is ou |
| | N - Use scier | | | | | | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| ree Stratum (| alot oizo: | 30) | % cover | Species? | Status | Number of Dominant Spa | • | | |
| 1 Salix lasial | | <u> </u> | 10 | x | FACW | Number of Dominant Spe That are OBL, FACW, or | | 6 | (A) |
| 2 Fraxinus la | | | 30 | <u> </u> | FACW | | FAG. | 0 | (A) |
| | Illiona | | | | | Total Number of Dominar | ht | | |
| , | | | | | | Species Across All Strata | | 6 | (B) |
| | | | 40 | = Total Cover | | GF | | - | (-) |
| apling/Shrub Sti | ratum (plot size | e: 30 |) | | | Percent of Dominant Spe | | | |
| 1 Rubus arm | | | _) 35 | x | FAC | That are OBL, FACW, or | | 100% | (A/B) |
| 2 Mahonia a | | | 5 | | FACU | That are est, 17.6.1., | | 10076 | ,~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 3 | 44 | | | | • • • • • | Prevalence Index Wo | orksheet: | | |
| 4 | | | | | | Total % Cover of | Multiply b | y: | |
| 5 | | | | | | OBL Species | x 1 = | | |
| <u> </u> | | | 40 | = Total Cover | | FACW species | x 2 = | | |
| | · · · · | | | | | FAC Species | x 3 = | | |
| `` | plot size: | 10) | <u> </u> | v | | FACU Species | x 4 = | | |
| 1 Phalaris an | | | <u>35</u> 20 | <u> </u> | | UPL Species | x 5 = | | (D) |
| Alopecurus B Holcus lan | s arundinaceu atus | <u>s</u> | 20 | <u> </u> | (FAC) FAC | Column Totals | 0 (A) | 0 (| (B) |
| 4 Carex sp | alus | | 10 | | UPL) | Prevalence Index = | | #DIV/0! | |
| 5 Dipsacus f | fullonum | | 5 | | FAC | | DIA - | | |
| · Diusacus i | | | 5 | | FACW | Hydrophytic Vegetat | ion Indicators: | | |
| | | | 5 | | FACW | | 1- Rapid Test for Hyd | rophytic Vegetatior | ı |
| 6 Juncus eff | tens | | | | | | | | |
| 6 Juncus eff 7 Juncus pa | tens | | | | | X | 2- Dominance Test is | | |
| 5 Juncus eff 7 Juncus pa | tens | | 100 | = Total Cover | | | 3-Prevalence Index is | $s \le 3.0^{1}$ | |
| Juncus eff Juncus pa 3 | | | 100 | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adap | $s \le 3.0^1$ | |
| Juncus eff | | | 100 | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adap data in Remarks or o | s ≤ 3.0 ¹ otations ¹ (provide s n a separate sheet) | |
| Juncus eff Juncus pa Juncus pa Juncus pa | | |) | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasc | s ≤ 3.0 ¹ otations ¹ (provide si n a separate sheet) cular Plants ¹ |) |
| Juncus eff Juncus pa Juncus pa Juncus pa | | | _) | | | | 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasc Problematic Hydroph | s ≤ 3.0 ¹ otations ¹ (provide si n a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex |) kplain) |
| 6 Juncus eff | | |) | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasc Problematic Hydroph | s ≤ 3.0 ¹ otations ¹ (provide si n a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex |) kplain) |

| SOIL | | | PHS # | 7 | /296 | | | Sampling Point: 5 | | | |
|---|--|-------------|---------------------|--------------|----------------------------------|--------------------|---------------------|---|--|--|--|
| | - | the depth I | needed to docu | | | nfirm the absen | ce of indicators.) | | | | |
| Depth (Inchos) | Matrix Color (moist) | % | Color (moist) | Red % | ox Features Type ¹ | Loc ² | Texture | Remarks | | | |
| (Inches) | | | | | <u> </u> | | Silt Loam | Fine-Medium | | | |
| 0-13 | 10YR 3/2 | 95 | 7.5YR 3/4 | | | | Silt Loan | Fine-mealum | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | | | | | | | 2 | | | |
| | ntration, D=Deplet | | | | | | Indic | ² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ : | | | |
| - | stosol (A1) | | | | Sandy Redo | | | 2 cm Muck (A10) | | | |
| | stic Epipedon (A2) |) | | | - Stripped Ma | | | Red Parent Material (TF2) | | | |
| | ack Histic (A3) | , | | | _ | ky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) | | | |
| | /drogen Sulfide (A | 4) | | | _ | ed Matrix (F2) | , | Other (explain in Remarks) | | | |
| | epleted Below Dar | - | (11) | | Depleted Ma | | | | | | |
| | ick Dark Surface | , | , | x | - | Surface (F6) | | | | | |
| | andy Mucky Minera | | | | | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland | | | |
| | andy Gleyed Matrix | | | | - | essions (F8) | | hydrology must be present, unless disturbed or problematic. | | | |
| Restrictive La | yer (if present |): | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (inches): | | | | | | | Hydric Soil Pres | sent? Yes X No | | | |
| Remarks: | | | | | | | | | | | |
| HYDROLOG | Υ | | | | | | | | | | |
| Wetland Hydr | ology Indicato | rs: | | | | | | | | | |
| Primary Indica | tors (minimum | of one req | uired; check al | I that apply | y) | | | Secondary Indicators (2 or more required) | | | |
| Su | urface Water (A1) | | | | Water staine | ed Leaves (B9) | Except MLRA | Water stained Leaves (B9) | | | |
| Hi | gh Water Table (A | 2) | | | 1, 2, 4A, and | d 4B) | | (MLRA1, 2, 4A, and 4B) | | | |
| Sa | aturation (A3) | | | | Salt Crust (E | 311) | | Drainage Patterns (B10) | | | |
| W | ater Marks (B1) | | | | Aquatic Inve | ertebrates (B13) | | Dry-Season Water Table (C2) | | | |
| | ediment Deposits (| B2) | | | | ulfide Odor (C1) | | Saturation Visible on Aerial Imagery (CS | | | |
| | ift Deposits (B3) | | | | - | | g Living Roots (C3) | X Geomorphic Position (D2) | | | |
| | gal Mat or Crust (E | 34) | | | | Reduced Iron (| , | Shallow Aquitard (D3) | | | |
| | on Deposits (B5) | (DC) | | | _ | | owed Soils (C6) | X Fac-Neutral Test (D5) | | | |
| | urface Soil Cracks | | aon (P7) | | _ | Stressed Plants | | Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7) | | | |
| | undation Visible or barsely Vegetated | | | | | ain in Remarks) | | | | | |
| Field Observa | ations: | | | | | | | | | | |
| Surface Water P | resent? Yes | | No X | Dept | h (inches): | | | | | | |
| Water Table Pre | sent? Yes | | No X | Dept | h (inches): | >13 | Wetland Hyd | Irology Present? | | | |
| Saturation Prese (includes capillary | | | No X | Dept | h (inches): | >13 | | Yes X No | | | |
| Describe Record | led Data (stream g | auge, moni | toring well, aerial | photos, pre | vious inspecti | ons), if available | : | | | | |
| | | | | · • | | · | | | | | |
| | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Sherwood Industrial P | | | | | | | | | |
|---|--------------------|----------------|--------------------|--------------------|------------------|--|--|---|---|
| roject/Site: | | | | City/County: | Sherwo | ood/Washington | Sampling Date: | 9/22 | /2021 |
| pplicant/Owner: | OWRA Sh | erwood, L | LC | | | State: | OR | Sampling Point: | 6 |
| vestigator(s): | | JT/CM | | Section, To | wnship, Range: | Section 29 |), Township 2So | uth, Range 1We | est |
| ndform (hillslope | e, terrace, etc.:) | | Slope | | Local relief (co | ncave, convex, none): | None | Slope (%): | 3 |
| bregion (LRR): | | LRR A | ، | Lat: | 45.36 | 54 Long: | -122.8266 | Datum: | WGS84 |
| il Map Unit Nam | ne: | | Wapato s | ilty clay loam | | NWI Clas | ssification: | None | |
| e climatic/hydrol | logic conditions c | on the site ty | pical for this tim | ne of year? | Yes | No | X (if no, exp | olain in Remarks) | |
| e vegetation | Soil | or Hyd | drology X | significantly dist | urbed? | Are "Normal Circumstanc | es" present? (Y/N) | Y | |
| e vegetation | Soil | or Hyd | drology | naturally proble | matic? If needed | , explain any answers in Rer | marks.) | | |
| | | | | | | | | | |
| | | | | | npling point | locations, transects | , important fea | tures, etc. | |
| drophytic Veget | | Yes | X No | | Is Sampled Ar | ea within | | | |
| dric Soil Presen | nt? | Yes | No | | a Wetlar | | | No X | |
| etland Hydrolog | y Present? | Yes | No | <u> </u> | | | | | |
| | - | | | | | we make sure to evaluate | - | | |
| | | | | | | are present. The site is | | | |
| | - | - | - | | | l storm facilities. The g eet flow from pervious | ••• | - | upiand slop |
| | N - Use scien | - | | - | | F | | | |
| | | | absolute | Dominant | Indicator | Dominance Test worl | ksheet: | | |
| o | | , | % cover | Species? | Status | | | | |
| e <u>Stratum</u> (p | olot size: |) | | | | Number of Dominant Spec | | • | (a) |
| | | | | | | That are OBL, FACW, or F | -AC: | 3 | (A) |
| | | | | | | Total Number of Deminent | | | |
| | | | | | | Total Number of Dominant Species Across All Strata: | | 3 | (B) |
| | | | 0 | = Total Cover | | Species Across Air Strata. | | | (D) |
| | | | | | | | | | |
| pling/Shrub Stra | | e: 15 | _) | | | Percent of Dominant Spec | | | |
| Rubus arm | | | 50 | <u> </u> | FAC | That are OBL, FACW, or | FAC: | 100% | (A/B) |
| Rubus lacir | | | <u>5</u> 2 | | FACU FAC | Prevalence Index Wo | rkahaat | | |
| Crataegus I | monogyna | | | | | Total % Cover of | Multiply b | | |
| | | | | | | OBL Species | x 1 = | | |
| | | | 57 | = Total Cover | | FACW species | x 2 = | | |
| | | | | | | FAC Species | 65 x 3 = | | |
| r <u>b Stratum</u> (p | olot size: | 10) | | | | FACU Species | 70 x 4 = | 280 | |
| Dipsacus fu | ullonum | | 60 | Χ | FAC | UPL Species | 20 x 5 = | 100 | |
| • • | pillaris | | 30 | X | FAC | Column Totals | 155 (A) | 575 | (B) |
| Agrostis ca | undinacea | | 10 | | FACW | | | | |
| | | | | | | | | · · · | |
| | | | | | | Prevalence Index =E | 8/A = | 3.71 | |
| | | | | | | | | 3.71 | |
| | | | | | | Hydrophytic Vegetati | on Indicators: | | |
| | | | | | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd | Irophytic Vegetation | 1 |
| | | | | | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd 2- Dominance Test is | lrophytic Vegetation | 1 |
| | | | | = Total Cover | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd 2- Dominance Test is 3-Prevalence Index is | lrophytic Vegetation s >50% s ≤ 3.0 ¹ | |
| Phalaris ard | | | | = Total Cover | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd 2- Dominance Test is 3-Prevalence Index is I-Morphological Adap | Trophytic Vegetation 3 > 50% $3 \le 3.0^{1}$ otations ¹ (provide s | upporting |
| Phalaris ard | | | | = Total Cover | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd 2- Dominance Test is 3-Prevalence Index is | rophytic Vegetation > 50% $s \le 3.0^1$ otations ¹ (provide s n a separate sheet | upporting |
| oody Vine Stratu | | | | = Total Cover | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd 2- Dominance Test is 3-Prevalence Index is I-Morphological Adap data in Remarks or o 5- Wetland Non-Vaso | lrophytic Vegetation s > 50% s ≤ 3.01 otations ¹ (provide s n a separate sheet cular Plants ¹ | upporting) |
| Phalaris aru | | | | = Total Cover | | Hydrophytic Vegetati | on Indicators: I- Rapid Test for Hyd P- Dominance Test is Prevalence Index is I-Morphological Adap data in Remarks or o 5- Wetland Non-Vasc Problematic Hydroph | Irophytic Vegetation 3 > 50% $5 \le 3.0^1$ otations ¹ (provide solutions ¹ a separate sheet cular Plants ¹ ytic Vegetation ¹ (E) | upporting) <plain)< td=""></plain)<> |
| Agrostis ca Phalaris are Phalaris are | | | _) | | | Hydrophytic Vegetati X 2 X 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | on Indicators: I- Rapid Test for Hyd P- Dominance Test is Prevalence Index is I-Morphological Adap data in Remarks or o 5- Wetland Non-Vasc Problematic Hydroph | Irophytic Vegetation 3 > 50% $5 \le 3.0^1$ otations ¹ (provide solutions ¹ a separate sheet cular Plants ¹ ytic Vegetation ¹ (E) | upporting) <plain)< td=""></plain)<> |
| Phalaris aru | um (plot size: | | _) | | | Hydrophytic Vegetati X | on Indicators: I- Rapid Test for Hyd P- Dominance Test is Prevalence Index is I-Morphological Adap data in Remarks or o 5- Wetland Non-Vasc Problematic Hydroph | Irophytic Vegetation 3 > 50% $5 \le 3.0^1$ otations ¹ (provide solutions ¹ a separate sheet cular Plants ¹ ytic Vegetation ¹ (E) | upporting) <plain)< td=""></plain)<> |

| Profile Deciption: (Describe to the depth mediat ob accument the Indicator or confirm the absence of Indicators, J Period: Feature Texture Remarks 0-16 2.5Y 3/2 100 | SOIL | | | Pł | IS # _ | 72 | 96 | | | Sampling Po | oint: | 6 |
|---|-----------------|-----------------------|-------------|------------|------------|-------------|--------------|-------------------|---------------------|---------------------------------------|---------------|-------------------|
| Interview Color (molet) % Type ¹ Loc ² Toture Remarks 0-16 2.5Y 3/2 100 | Profile Descri | ption: (Describe to | the depth i | needed to | docume | nt the indi | cator or co | nfirm the absen | nce of indicators.) | | | |
| 0-16 2.5Y 3/2 100 Silt Loam "Type: C=Concentration_D=Depote on RN=Reduced Matrix, CS=Covered or Ceated Sand Grains. *Location: PL=Pore Lining, M=Matrix, HMMetrix, HMMetrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: for Problematic Hydric Soils': Headed (A1) Headed (A1) Shipped Matrix (S5) Red Parent Material (TF2) Black Histic (A3) Learny Macks (Matrix (S5) Red Parent Material (TF2) Black Histic (A3) Learny Macks (Matrix (S5) Red Parent Material (TF2) Black Histic (A3) Learny Macks (Matrix (S5) Red Parent Material (TF2) Black Matrix (S1) Depleted Metrix (S1) Oper (septent Material) Very Sallow Dask Surface (TF1) Trick Dark Surface (A11) Depleted Dark Surface (F6) ************************************ | Depth | Matrix | | | | | | | | | | |
| Image: Secondary Indicators (AP) Reduced Matrix, CS-Covered of Context Sand Grains. ¹ Cocation: PL-Pore Ling, MrMatrix. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histoc (A1) Stripped Matrix (S5) Red Parent Material (TF2) Bick-Hack (A2) Stripped Matrix (S5) Red Parent Material (TF2) Understand Surface (A4) Learny Model Matrix (S5) Red Parent Material (TF2) Depleted Bdow Dark Surface (A11) Depleted Matrix (F2) Offer (oxplain in Remarks) Depleted Bdow Dark Surface (A11) Depleted Dark Surface (F7) ¹ Indicators of Tydrophytic vegotation and voltand ¹ hydric Soil Present? Yes | | | | Color (| (moist) | % | Туре' | Loc ² | | Re | marks | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | 0-16 | 2.5Y 3/2 | 100 | | | | | | Silt Loam | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | · | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | · | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | 1 | . | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : | | | | | | | | · | | | | |
| Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo Epipedion (A2) Strepped Matrix (S6) Red Parent Material (T12) Black Histic (A3) Loamry Mucky Mineral (F1) (except MLRA 1) Vary Shalow Dark Surface (TF12) Hydrogen Sulfade (A4) Loamry Mucky Mineral (F1) (except MLRA 1) Other (explain in Remarks) Trick Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remarks) Sandy Glaved Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Redox Depressions (F8) No X Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Staturation (A3) Salt Cast (E11) Drahage Paterns (B10) Drahage Paterns (B10) Saturation (A3) Salt Cast (E11) Drahage Paterns (B10) Drahage Paterns (B10) Statizet Rink Ruhk (B1) Aquate Invertebrates (B13) Droh-Season Water Table (C2) Saturation (Water Table (C2) Statizet S(B3) Oxidized Rhizeophores Subride Odor (C1) Saturation Water Table (C2) Saturation Visible on Aerial Imagery (C Strepped Matrix (S4) | | - | | | | | | | | | - | |
| Histic Epipedon (A2) Stipped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF 12) Hydrogen Suffide (A4) Loamy Glayed Matrix (F2) Other (explain in Remarks) Depieted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depieted Matrix (F3) No X Restrictive Layer (If present): Type: No X Depieted Matrix (S4) Redox Dark Surface (F7) No X Petht (inches): Hydric Soil Present? Yes No X Remarks: Hydric Soil Present? Yes No X Metand Hydrology Indicators: Primary Indicators (C1) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Hydrology Indicators: Sait Crust (B1) Dranage Patterne (B10) Dranage Patterne (B10) Dranage Patterne (B10) Surface Water (A1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sait Crust (B1) Dranage Patterne (B10) <t< td=""><td>•</td><td></td><td>icable to</td><td>all LRR</td><td>s, unless</td><td></td><td></td><td></td><td>Indica</td><td></td><td>-</td><td>ils":</td></t<> | • | | icable to | all LRR | s, unless | | | | Indica | | - | ils": |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfde (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depleted Below Dark Surface (A12) Redx Dark Surface (F7) Print Comparison (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Print Comparison (F8) Present Redx Dark Surface (F7) Problematic. Restrictive Layer (If present): Type: Problematic. Depth (inches): | | | | | | | - | · · / | | | | |
| Hydrogen Sulidie (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Findcators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (FF) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Depleted Dark Surface (FF) Depth (inches): Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required). Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B1) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Surface Water (B2) Hydrogen Sulfide Odor (C1) Saturation (A3) Saturation In Proved Soils (C3) Surface Soil Cracks (B6) Suture Rained Surface (B1) Water Marks (B1) Aquatic Invertebrates (B1) Drainage Patterns (B10) Water Marks (B2) Hydrogen Sulfide Odor (C1) Saturatin Present Table (A2) | ^I | Histic Epipedon (A2) | | | | | | | | | | , |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mukey Mineral (S1) Depleted Dark Surface (F7) Sandy Mukey Mineral (S1) Depleted Dark Surface (F7) Sandy Mukey Mineral (S1) Depleted Dark Surface (F7) Primary Indicators Redox Depressions (F8) Pype: Depth (inches): Depth (inches): Hydric Soil Present? Yes Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Sat Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry Saturation (A3) Sat Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Dry Season Water Table (C2) Sutrate or Crust (B4) Presence of Reduced Iron (C4) Water Stallow Aquatic Invertebrates (B13) Dry Season Water Table (C2) Sutrate or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquater Notice on Aerial Imagery (C7) Other (Explain in Remarks) St | E | Black Histic (A3) | | | | | Loamy Muc | ky Mineral (F1) (| except MLRA 1) | Very Shall | ow Dark Surfa | ace (TF12) |
| Thick Dark Surface (A12) Redox Dark Surface (F5) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: | ł | Hydrogen Sulfide (A4 | +) | | | | Loamy Gley | ed Matrix (F2) | | Other (exp | lain in Remar | rks) |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) **Indicators of hydrophydic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: | [| Depleted Below Dark | Surface (A | A11) | | | Depleted M | atrix (F3) | | | | |
| | | Thick Dark Surface (| A12) | | | | Redox Dark | Surface (F6) | | ³ Indicators of hydrophyti | | and watland |
| Restrictive Layer (if present): Type: Depth (inches): Memarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) High Water Table (A2) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) Water stained Leaves (B9) Murch 12, 4A, and 4B) Surface Water (A1) Water stained Leaves (B9) Murch 12, 4A, and 4B) Water stained Leaves (B9) Murch 2, 4A, and 4B) Startaction (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (B1) Drint Deposits (B2) Hydrogen Sulfde Odor (C1) Saturation (D4) Presence of Reduced iron (C4) Shallow Aquitard (D3) In ron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Sturface Soil Cracks (B6) Sturface Soil Cracks (B6) Sturface Soil Crack | | Sandy Mucky Minera | l (S1) | | | | Depleted Da | ark Surface (F7) | | | | |
| Type: | | Sandy Gleyed Matrix | (S4) | | | | Redox Dep | ressions (F8) | | proble | ematic. | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) Water stained Leaves (B1) Water stained Leaves (B1) Water Marks (B1) Saturation (A3) Satic Crust (B11) Drainage Patterns (B10) Water Marks (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation (Visible on Aerial Imagery (C Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes | Depth (inches | ;;): | | | | | - | | Hydric Soil Pres | sent? Yes | No | <u>x</u> |
| Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes No X Saturation Present? Yes No X Depth (inches): >16 Water Table Present? Yes No X Depth (in | | | ·s· | | | | | | | | | |
| Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Sati Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Yes No X | - | | | | | | | | | | (0 | |
| High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Wetland Hydrology Present? No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 | | | of one req | uired; ch | eck all tr | | | ad Lagyag (D0) | | | • | |
| Inight Water Table (A2) Saturation (A3) Saturation (A3) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X | | () | 2) | | | | | . , , | Except MLRA | | • | , |
| Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Wetland Hydrology Present? Yes No X Depth (inches): >16 Yes No X | | | 2) | | | | | | | | | |
| Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stuned or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Wetland Hydrology Present? Yes No X Depth (inches): >16 Yes No X | | | | | | | | | | | | |
| Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >16 Wetland Hydrology Present? Yes No X Depth (inches): >16 Yes No X | | | 32) | | | | | | | · | | . , |
| Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Yes No X Depth (inches): >16 | | |) | | | | | | | | | |
| Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): >16 Saturation Present? Yes No X Depth (inches): >16 | | | 4) | | | | | - | | | | -/ |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Vegetated Hydrology Present? Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X | | | , | | | | | • | | | | |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >16 Yes No X Saturation Present? Yes No X Depth (inches): >16 Yes No X | | Surface Soil Cracks | (B6) | | | | Stunted or S | Stressed Plants | (D1) (LRR A) | Raised An | t Mounds (D6 | 5) (LRR A) |
| Field Observations: Surface Water Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X | I | Inundation Visible on | Aerial Ima | gery (B7) | | | Other (Expl | ain in Remarks) | | Frost-Hear | ve Hummock: | s (D7) |
| Surface Water Present? Yes No X Depth (inches): Model Mode | | Sparsely Vegetated (| Concave Su | urface (B8 | 5) | | | | | | | |
| Surface Water Present? Yes No X Depth (inches): Model Mode | Field Observ | vations: | | | | | | | | | | |
| Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X | | | | No | х | Depth | (inches): | | | | | |
| Saturation Present? Yes No X Depth (inches): >16 Yes No X | | | | — | | - | | >16 | Wetland Hvd | rology Present? | | |
| | Saturation Pres | sent? Yes | | — | | - | | | | | No | <u>x</u> |

Remarks:

| WETLAND DETE | | DATA FOR | RM - Weste | ern Mountains, Val | leys, and Coast | t Region | |
|--|------------------------------------|--------------------------------|---------------------------------|--|--|--|---|
| roject/Site: Sherwood Industri | al Park | City/County: | Sherwo | ood/Washington | Sampling Date: | 9/22/ | 2021 |
| pplicant/Owner: OWRA Sherwood | , LLC | | | State: | OR | Sampling Point: | 7 |
| vestigator(s): JT/CM | | Section, To | wnship, Range: | Section 29 | D, Township 2Sout | h, Range 1We | st |
| ndform (hillslope, terrace, etc.:) | Depressio | n | Local relief (cor | ncave, convex, none): | Concave | Slope (%): | 3 |
| bregion (LRR): | Α | Lat: | 45.366 | 63 Long: | -122.8266 | Datum: | WGS84 |
| il Map Unit Name: | Wapato si | Ity clay loam | | NWI Cla | ssification: | None | |
| e climatic/hydrologic conditions on the site | - | | Yes | No | | in in Remarks) | |
| | Hydrology X | | | Are "Normal Circumstand | | , | |
| | · · · · | • • • | | , explain any answers in Re | · · · / | <u> </u> | |
| e vegetation Soil or H | iyurology | | | | marks.) | | |
| JMMARY OF FINDINGS – Atta | ich site map s | howing san | npling point | locations, transects | , important featu | ires, etc. | |
| drophytic Vegetation Present? Yes | X No | | | | | | |
| dric Soil Present? Yes | X No | | Is Sampled Ar a Wetlar | | 1 X | No | |
| tland Hydrology Present? Yes | X No | | u Wellar | - | | | |
| marks: Precipitation is below | normal which | is now comm | on As such | wa maka sura ta avalu | ato a dry soason y | wator tablo in a | roas of |
| opes on site are not conducive to | e hydrophytic v diverted throug | vegetation and h stormwater | d hydric soils infrastructur | are present. The site is and storm facilities. | s surrounded by no The geomorphic p | ew developme osition of grad | nt. It is ou |
| EGETATION - Use scientific na | | | | | | | |
| | absolute % cover | Dominant Species? | Indicator Status | Dominance Test wor | ksheet: | | |
| ee Stratum (plot size: |) | opeoles | Otatus | Number of Dominant Spe | cies | | |
| | ., | | | That are OBL, FACW, or | | 1 (| A) |
| | | | | ····· ··· ··· ··· ··· ··· ··· ··· ··· | | (| |
| | | | | Total Number of Dominan | t | | |
| | | | | Species Across All Strata: | | 1 (| B) |
| | 0 | = Total Cover | | | | | |
| pling/Shrub Stratum (plot size: |) | | | Percent of Dominant Spec | | | |
| ping/onitab ottatam (piot size. |) | | | That are OBL, FACW, or | | I 00% (| A/B) |
| | | | | | | (| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | · | | | Prevalence Index Wo | orksheet: | | |
| | | | | Total % Cover of | Multiply by: | | |
| | | | | OBL Species | x 1 = | 0 | |
| | 0 | = Total Cover | | FACW species | x 2 = | 0 | |
| | | | | FAC Species | x 3 = | 0 | |
| rb Stratum (plot size: 10 | <u>)</u> | | | FACU Species | x 4 = | 0 | |
| Phalaris arundinacea | 100 | <u> </u> | FACW | UPL Species | x 5 = | 0 | |
| | | | | Column Totals | 0 (A) | 0 (| В) |
| | · | | | Prevalence Index = | B/A = # | DIV/0! | |
| | · | | | Hydrophytic Vegetati | on Indicators: | | |
| | · | | | | 1- Rapid Test for Hydro | nhytic Vegetation | |
| | | | | | 2- Dominance Test is > | | |
| | | | | | 3-Prevalence Index is ≤ | | |
| | 100 | = Total Cover | | | | ations ¹ (provide su | pporting |
| | 100 | = Total Cover | | 4 | +-iviorphological Adapta | (protido or | |
| body Vine Stratum (plot size: | 100 | = Total Cover | | | data in Remarks or on | | |
| · |) | = Total Cover | | | | a separate sheet) | |
| oody Vine Stratum (plot size: |) | = Total Cover | | | data in Remarks or on | a separate sheet) lar Plants ¹ | plain) |
| 3 loody Vine Stratum (plot size: l |)) 0 | = Total Cover | | | data in Remarks or on 5- Wetland Non-Vascul Problematic Hydrophyti | a separate sheet) lar Plants ¹ ic Vegetation ¹ (Ex | |

| OIL | | | | | | | | | | |
|--|--|---|--|---|--|--|---|------------------------------|--|--|
| rofile Descr | iption: (Describe to t | he depth | needed to docume | ent the indic | ator or con | firm the absen | ce of indicators.) | | | |
| Depth | Matrix | | | | Features | 1 2 | - . | | _ | |
| (Inches) | Color (moist) | % | Color (moist) | <u>%</u> | Туре | Loc ² | Texture | . <u> </u> | Remai | ks |
| 0-13 | 10YR 3/2 | 95 | 10YR 4/6 | 3 | С | M | Silt Loam | Fine | | |
| 0-13 | | | 10YR 4/6 | 2 | С | PL | Silt Loam | Fine | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| vpe: C=Con | centration, D=Depletic | on. RM=Re | educed Matrix. CS= | Covered or 0 | Coated Sand | Grains. | | ² Location: | PL=Pore Lining, | M=Matrix. |
| | Indicators: (Appli | | | | | | Indic | | Problematic Hy | |
| | Histosol (A1) | | | | andy Redox | (85) | indie | | 2 cm Muck (A | |
| | Histic Epipedon (A2) | | | | Stripped Mat | · / | | | Red Parent Ma | |
| | | | | | | / Mineral (F1) (e | veget ML BA 1) | | | |
| | Black Histic (A3) | 、 、 | | | | | ACCEPT MERA T | | | Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | | | | | d Matrix (F2) | | | Other (explain | in Remarks) |
| | Depleted Below Dark | | A11) | | Depleted Mat | | | | | |
| | Thick Dark Surface (A | | | | Redox Dark S | | | ³ Indicators | of hydrophytic ve | getation and wetland |
| | Sandy Mucky Mineral | | | | - | k Surface (F7) | | | must be present, | unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | R | Redox Depre | ssions (F8) | | | problema | tic. |
| estrictive | Layer (if present): | | | | | | | | | |
| VDO: | | | | | | | | | | |
| ype. | | | | | | | | | | |
| • • | s): | | | | | | Hydric Soil Pre | sent? Yes | s X | No |
| epth (inche | s): | | | | | | Hydric Soil Pre | sent? Ye | s <u>X</u> | No |
| eepth (inches emarks: | | s: | | | | | Hydric Soil Pre | sent? Yes | s <u>X</u> | No |
| epth (inches emarks: YDROLC | IGY drology Indicators | | uired; check all t | hat apply) | | | Hydric Soil Pre | | | No |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | OGY | | uired; check all t | | Vater stained | d Leaves (B9) (| | | | 2 or more required |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | IGY drology Indicators cators (minimum of Surface Water (A1) | f one req | uired; check all t | v | Vater stained , 2, 4A, and | . , . | | | ary Indicators (2 | 2 or more required Leaves (B9) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | IGY drology Indicators cators (minimum o | f one req | uired; check all t | V 1 | | 4B) | | | ary Indicators (2 Water stained | 2 or more required Leaves (B9) A, and 4B) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | OGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all t | V 1 S | , 2, 4A, and Salt Crust (B | 4B) | | | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte | 2 or more required Leaves (B9) A, and 4B) |
| epth (inches emarks: YDROLC /etland Hy rimary Indi | OGY drology Indicators cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all t | V S A | , 2, 4A, and Salt Crust (B Aquatic Inver | 4B) 11) | | | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W | 2 or more required Leaves (B9) A, and 4B) erns (B10) |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | IGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all t | V 1 A H | , 2, 4A, and Galt Crust (B Aquatic Inver Iydrogen Su | 4B) 11) tebrates (B13) Ifide Odor (C1) | | | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | <u>f one req</u> ?) 32) | uired; check all t | | , 2, 4A, and Salt Crust (B Aquatic Inver Iydrogen Su Dxidized Rhi: | 4B) 11) tebrates (B13) Ifide Odor (C1) | Except MLRA | Seconda | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) |
| epth (inches emarks: IYDROLC /etland Hy rimary Indi | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | <u>f one req</u> ?) 32) | uired; check all t | Y A A H Y P | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C | Except MLRA | Seconda | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P | 2 or more required Leaves (B9) A, and 4B) erns (B10) l'ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) |
| Pepth (inches emarks: IYDROLC Vetland Hy Irimary Indi | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req ?) i2) i4) | uired; check all t | | , 2, 4A, and Salt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C | Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To | 2 or more required Leaves (B9) A, and 4B) erns (B10) l'ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) |
| IYDROLC | IGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I | f one req ?) 32) 4) B6) | | 1 А н н Х.СС Р R Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я. | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of f Recent Iron F Stunted or St | 4B) (11) (tebrates (B13)) (fide Odor (C1)) (cospheres along Reduced Iron (C Reduction in Plo ressed Plants (| Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) est (D5) punds (D6) (LRR A) |
| IYDROLC | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) | 1 А н н Х.СС Р R Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я. | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of f Recent Iron F Stunted or St | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo | Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo | 2 or more required Leaves (B9) A, and 4B) erns (B10) later Table (C2) ible on Aerial Imager losition (D2) ard (D3) est (D5) |
| iepth (inche: emarks: IYDROLC /etland Hy rimary Indi | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) | 1 А н н Х.СС Р R Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я.Я. | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of f Recent Iron F Stunted or St | 4B) (11) (tebrates (B13)) (fide Odor (C1)) (cospheres along Reduced Iron (C Reduction in Plo ressed Plants (| Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) est (D5) punds (D6) (LRR A) |
| ield Obser | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | 1 А н н н н п | , 2, 4A, and Galt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of I Recent Iron F Stunted or St Other (Explai | 4B) (11) (tebrates (B13)) (fide Odor (C1)) (cospheres along Reduced Iron (C Reduction in Plo ressed Plants (| Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) est (D5) punds (D6) (LRR A) |
| ield Obser | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> | | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of I Recent Iron F Stunted or St Dther (Explai | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) | g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave H | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) est (D5) punds (D6) (LRR A) |
| ield Obser urface Water //ater Table F | Cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of f Recent Iron F Stunted or St Dther (Explai | 4B) 11) tebrates (B13) ifide Odor (C1) cospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |
| ield Obser urface Water /ater Table F aturation Pre | Cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C Vations: Present? Yes Seresent? Yes | f one req ?) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> | | , 2, 4A, and salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of f Recent Iron F Stunted or St Dther (Explai | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) | g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager osition (D2) ard (D3) est (D5) punds (D6) (LRR A) |
| ield Obser urface Water /aturation Pre aturation Pre aturation Pre | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes sent? Yes ry fringe) | f one req 2) 32) 4) B6) Aerial Ima concave St | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F Baunted or St Dther (Explai nches): nches): | 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |
| ield Obser urface Water /aturation Pre aturation Pre aturation Pre | Cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C Vations: Present? Yes Seresent? Yes | f one req 2) 32) 4) B6) Aerial Ima concave St | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F Baunted or St Dther (Explai nches): nches): | 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |
| ield Obser urface Water /aturation Pre aturation Pre aturation Pre | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes sent? Yes ry fringe) | f one req 2) 32) 4) B6) Aerial Ima concave St | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F Baunted or St Dther (Explai nches): nches): | 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |
| ield Obser aturation Pre aturation Pre accube Reco | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes sent? Yes ry fringe) | f one req 2) 32) 4) B6) Aerial Ima concave St | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F Baunted or St Dther (Explai nches): nches): | 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |
| ield Obser urface Water /aturation Pre aturation Pre aturation Pre | DGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Present? Yes sent? Yes ry fringe) | f one req 2) 32) 4) B6) Aerial Ima concave St | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Galt Crust (B Aquatic Inver Aydrogen Su Dxidized Rhiz Presence of I Recent Iron F Baunted or St Dther (Explai nches): nches): | 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo ressed Plants (n in Remarks) >13 >13 | Except MLRA g Living Roots (C3) 24) wed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda X X X X | ary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita Fac-Neutral To Raised Ant Mo Frost-Heave F | 2 or more required Leaves (B9) A, and 4B) erns (B10) /ater Table (C2) ible on Aerial Imager iosition (D2) ard (D3) est (D5) punds (D6) (LRR A) lummocks (D7) |

| WETLAN | D DETER | MINATION | N DATA FO | RM - Weste | rn Mountains, Val | eys, and Coas | st Region | |
|--|-----------------|---------------------------|-------------------------|-------------------------|--|-----------------------|-----------------------------------|------------|
| oject/Site: Sherwood | Industrial I | Park | City/County: | Sherw | ood/Washington | Sampling Date: | 8/25/ | 2021 |
| oplicant/Owner: OWRA S | herwood, L | .LC | | | State: | OR | Sampling Point: | 8 |
| estigator(s): | CM/CR | | Section, To | wnship, Range: | Section 29I |), Township 2So | uth, Range 1We | st |
| ndform (hillslope, terrace, etc.:) | | Slope/Ditc | ch | Local relief (co | ncave, convex, none): | Concave | Slope (%): | 5 |
| bregion (LRR): | LRR A | | Lat: | 45.36 | t4 Long: | -122.8281 | Datum: | WGS84 |
| I Map Unit Name: | | Aloha | silt loam | | NWI Cla | ssification: | None | |
| climatic/hydrologic conditions | on the site typ | pical for this tim | e of year? | Yes | No | X (if no, exp | lain in Remarks) | |
| vegetation Soil | or Hyd | Irology X | significantly dist | urbed? | Are "Normal Circumstand | es" present? (Y/N) | Y | |
| vegetation Soil | | | | | , explain any answers in Re | , | | |
| J | _ ` | | _ , | | , , , , | , | | |
| JMMARY OF FINDING | S – Attach | <mark>ı site map</mark> s | showing san | npling point | locations, transects | , important feat | tures, etc. | |
| Irophytic Vegetation Present? | Yes | No | Х | | | | | |
| Iric Soil Present? | Yes | No | Х | Is Sampled A a Wetla | N/ | | No X | |
| tland Hydrology Present? | Yes | No | Х | | | | | |
| narks: Precipitation | is below no | ormal which | is now comm | on As such | we make sure to evalu | ate a dry-season | water table in a | reas of |
| wer topography, or in are | | | | | | - | | |
| J that hydrology is slow | | | - | | | | | ual uplane |
| pes on site are not cond | | - | | receive conti | nual sheet flow from p | ervious upper slo | opes as before. | |
| GETATION - Use scie | ntific nam | absolute | . s. Dominant | Indicator | Dominance Test wor | rshoot: | | |
| | | % cover | Species? | Status | Dominance rest wor | Noneet. | | |
| e Stratum (plot size: | 30) | | | | Number of Dominant Spec | cies | | |
| Quercus garryana | | 30 | Х | FACU | That are OBL, FACW, or I | AC: | 5(| A) |
| Pseudotsuga menziesii | | 10 | Х | FACU | | | | |
| Corylus cornuta | | 10 | Х | FACU | Total Number of Dominan | t | | |
| Salix scouleriana | | 10 | Х | FAC | Species Across All Strata: | | 11 (| B) |
| | | 65 | = Total Cover | | | | | |
| oling/Shrub Stratum (plot siz | ze: 30 |) | | | Percent of Dominant Spec | ies | | |
| Spiraea douglasii | | 20 | X | FACW | That are OBL, FACW, or | FAC: | 45% (| A/B) |
| Cytisus scoparius | | 10 | Х | (UPL) | | | | |
| Mahonia aquifolium | | 10 | Х | FACU | Prevalence Index Wo | rksheet: | | |
| Alnus rubra | | 10 | X | FAC | Total % Cover of | Multiply b | y: | |
| | | | | | OBL Species | x 1 = | 0 | |
| | | 50 | = Total Cover | | FACW species | x 2 = | | |
| | 10) | | | | FAC Species | x 3 = | | |
| <u>b Stratum</u> (plot size: Phalaris arundinacea |) | 40 | x | FACW | FACU Species | x 4 = | | |
| Holcus lanatus | | 30 | <u> </u> | FAC | UPL Species Column Totals | 0 (A) | | B) |
| Galium aparine | | 20 | <u> </u> | FACU | | 0 (八) | (| 5) |
| Dipsacus fullonum | · | 5 | | FAC | Prevalence Index = | 3/A = | #DIV/0! | |
| Poa pratensis | | 5 | | FAC | | | | |
| p | · | | | | Hydrophytic Vegetati | on Indicators: | | |
| | | | | | | - Rapid Test for Hyd | rophytic Vegetation | |
| | · | | | | | 2- Dominance Test is | | |
| | | 100 | = Total Cover | | | 3-Prevalence Index is | $s \le 3.0^{1}$ | |
| | • | | | | | I-Morphological Adap | otations ¹ (provide su | ipporting |
| | |) | | | | lata in Remarks or o | . , | |
| ody Vine Stratum (plot size: | | | | | | 5- Wetland Non-Vasc | | |
| ody Vine Stratum (plot size: | | | | | | Problematic Hydrophy | | |
| oody Vine Stratum (plot size: | | | | | ¹ Indicators of hydric soil a | nd wetland hydrology | must be present, u | nless |
| ody Vine Stratum (plot size: | · | 0 | = Total Cover | | disturbed or problematic | | | |
| <u>body Vine Stratum</u> (plot size: | · | 0 | = Total Cover | | disturbed or problematic. | | | |
| ody Vine Stratum (plot size: | | 0 | = Total Cover | | disturbed or problematic. Hydrophytic Vegetation | Yes | No | x |

| SOIL | | | PHS # | 7296 | | | | Sampling Point: 8 | | |
|--------------------------------------|--|------------------------------------|-------------------------|-----------------|-------------------|--------------------|-----------------------|--|--|--|
| | iption: (Describe to | the depth | needed to docume | | | firm the abser | nce of indicators.) | | | |
| Depth (Inches) | Matrix Color (moist) | % | Color (moist) | Redox Fe % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-4 | 10YR 2/2 | 100 | | | .) | | Silt Loam | Tomano | | |
| 4-12 | | 10YR 2/2 98 10YR 3/3 2 C M Silt Lo | | | | | | Fine | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Con | centration, D=Deplet | ion, RM=R | educed Matrix, CS= | Covered or Co | ated San | d Grains. | | ² Location: PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | Indicators: (App | icable to | all LRRs, unles | s otherwise | noted.) | | Indic | ators for Problematic Hydric Soils ³ : | | |
| | Histosol (A1) | | | Sar | ndy Redo | x (S5) | | 2 cm Muck (A10) | | |
| | Histic Epipedon (A2) | 1 | | Stri | pped Ma | trix (S6) | | Red Parent Material (TF2) | | |
| | Black Histic (A3) | | | Loa | imy Mucł | (y Mineral (F1) | except MLRA 1) | Very Shallow Dark Surface (TF12) | | |
| | Hydrogen Sulfide (A | 4) | | Loa | imy Gley | ed Matrix (F2) | | Other (explain in Remarks) | | |
| | Depleted Below Dar | | A11) | | pleted Ma | | | | | |
| | Thick Dark Surface | | , | | | Surface (F6) | | | | |
| | Sandy Mucky Minera | | | | | irk Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland | | |
| | Sandy Gleyed Matrix | | | | | essions (F8) | | hydrology must be present, unless disturbed or problematic. | | |
| , | Layer (if present) | | | | | | problematic. | | | |
| Type: Depth (inches | <u></u> | | | | | | Hydric Soil Pres | sent? Yes No X | | |
| Remarks: | | | | | | | Hydric Soli Fres | | | |
| HYDROLO Wetland Hy | IGY drology Indicato | rs: | | | | | | | | |
| Primary Indie | cators (minimum | of one req | uired; check all th | hat apply) | | | | Secondary Indicators (2 or more required) | | |
| - | Surface Water (A1) | | · | | ter staine | ed Leaves (B9) | (Except MLRA | Water stained Leaves (B9) | | |
| | High Water Table (A | 2) | | 1, 2 | 2, 4A, and | d 4B) | | (MLRA1, 2, 4A, and 4B) | | |
| | Saturation (A3) | | | Salt | t Crust (E | 311) | | Drainage Patterns (B10) | | |
| | Water Marks (B1) | | | Aqu | uatic Inve | rtebrates (B13) | | Dry-Season Water Table (C2) | | |
| | Sediment Deposits (| B2) | | Hyd | drogen Si | ulfide Odor (C1) |) | Saturation Visible on Aerial Imagery (C9 | | |
| | Drift Deposits (B3) | | | Oxi | dized Rh | izospheres alor | ng Living Roots (C3) | Geomorphic Position (D2) | | |
| | Algal Mat or Crust (B4) Presence of Reduced Iron (C4) | | | | | C4) | Shallow Aquitard (D3) | | | |
| | Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) | | | | | owed Soils (C6) | Fac-Neutral Test (D5) | | | |
| | Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) | | | | | | (D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) | | |
| | Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | | | | | | | Frost-Heave Hummocks (D7) | | |
| | Sparsely Vegetated | Concave S | urface (B8) | | | | | | | |
| Field Obser | vations: | | | | | | | | | |
| Surface Water | Present? Yes | | No X | Depth (inc | hes): | | | | | |
| Water Table P | Present? Yes | | No X | Depth (inc | hes): | >12 | Wetland Hyd | Irology Present? | | |
| Saturation Pre (includes capillar | | | No X | Depth (inc | hes): | >12 | | Yes NoX | | |
| Describe Reco | orded Data (stream g | auge. mon | itoring well. aerial ph | notos, previous | inspectio | ons), if available |): : | | | |
| | (··· - ···· · 3 | J , | C , | | 1 | ,, | | | | |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | WETLAND |) DETEF | | | RM - Weste | ern Mountains, Val | leys, and Coas | PHS # t Region | 7296 |
|-------------------------------|-----------------------|----------------------------|--------------------------------|---------------------------------|-----------------|--|--|---------------------------------|-----------|
| oject/Site: | Sherwood | Industrial | Park | City/County: | Sherw | ood/Washington | Sampling Date: | 8/25 | /2021 |
| - plicant/Owner: | OWRA Sh | erwood, I | LC | | | State: | OR | Sampling Point: | 9 |
| estigator(s): | | CR/CM | | Section, To | wnship, Range: | Section 29 | D, Township 2Sou | th, Range 1We | est |
| | e, terrace, etc.:) | | Swale | - ' | | ncave, convex, none): | Concave | Slope (%): | 3 |
| oregion (LRR): | , | LRR A | | Lat: | 45.36 | 44 Long: | -122.8281 | Datum: | WGS84 |
| I Map Unit Nar | | | Aloha | - silt loam | | | ssification: | None | |
| - | logic conditions of | on the site tv | pical for this tim | e of vear? | Yes | No | | ain in Remarks) | |
| e vegetation | | | | significantly dist | | Are "Normal Circumstan | | , | |
| - | Soil | | | | | l, explain any answers in Re | , | · | |
| - | | ,. | | - | | | | | |
| JMMARY C | of Findings | – Attac | h site map इ | showing san | npling point | locations, transects | , important feat | ures, etc. | |
| drophytic Vege | tation Present? | Yes | X No | | Is Sampled A | roo within | | | |
| dric Soil Prese | nt? | Yes | X No | | a Wetla | nd? Yes | X | No | |
| etland Hydrolog | y Present? | Yes | X No | | | | | | |
| PJ that hydro opes on site | ology is slowly | y being div ucive to re | verted throug etaining wate | gh stormwater r, nor do they | · infrastructur | are present. The site i e and storm facilities. nual sheet flow from p | The geomorphic p | osition of grad | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| ee Stratum (| nlot sizo: | , | % cover | Species? | Status | Number of Deminent Cos | eiee | | |
| <u>ee Stratum</u> (| |) | | | | Number of Dominant Spe That are OBL, FACW, or | | 6 | (A) |
| | | | | | | That are OBE, I AGW, OF | TAC. | 0 | (~) |
| | | | | | | Total Number of Dominar | ıt | | |
| | | | | | | Species Across All Strata | | 6 | (B) |
| | | | 0 | = Total Cover | | | | | . , |
| pling/Shrub Str | atum (plot size | e: 30 |) | | | Percent of Dominant Spe | ries | | |
| Fraxinus la | | | | x | FACW | That are OBL, FACW, or | | 100% | (A/B) |
| Rubus arm | | | 10 | X | FAC | - , - , | | | |
| | | | | | | Prevalence Index Wo | orksheet: | | |
| | | | | | | Total % Cover of | Multiply by | : | |
| | | | | | | OBL Species | x 1 = | 0 | |
| | | | 40 | = Total Cover | | FACW species | x 2 = | 0 | |
| rb Stratum (| plot size: | 10) | | | | FAC Species FACU Species | x 3 = x 4 = | 0 | |
| Holcus lan | · | | 25 | x | FAC | UPL Species | x5= | 0 | |
| Agrostis ca | | | 20 | X | FAC | Column Totals | 0 (A) | | (B) |
| Juncus pa | tens | | 20 | X | FACW | | 、 | . <u></u> , | |
| Carex sp | | | 20 | Х | (FAC) | Prevalence Index = | B/A =# | DIV/0! | |
| Phalaris ar | undinacea | | 15 | | FACW | | | | |
| Epilobium | ciliatum | | 10 | | FACW | Hydrophytic Vegetat | ion Indicators: | | |
| Dipsacus f | ullonum | | 5 | | FAC | | 1- Rapid Test for Hydr | ophytic Vegetatior | ı |
| | | | | | | | 2- Dominance Test is | | |
| | | | 115 | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adap | | upporting |
| | | | | | | | data in Remarks or on | | |
| oody Vine Strat | um (plot size: | |) | | | | | | |
| oody Vine Strat | <u>um</u> (plot size: | | _) | | | | 5- Wetland Non-Vasci | liar Plants | |
| oody Vine Strat | <u>um</u> (plot size: | | _) | | | | 5- Wetland Non-Vasci Problematic Hydrophy | | (plain) |
| oody Vine Strat | <u>um</u> (plot size: | | _) 0 | = Total Cover | | | Problematic Hydrophy | tic Vegetation ¹ (Ex | |

| Depth (Inches) Colu 0-14 10 0-14 10 0-14 | pipedon (A2) listic (A3) en Sulfide (A4) d Below Dark Surface lark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Color (moist) 7.5YR 4/6 7.5YR 4/6 Reduced Matrix, CS= o all LRRs, unles | Redox Feature % Ty 10 10 3 F | ures pe1 Loc ² C M PL M C M C M C M C M C M C M C M C M C M C | Texture Silt Silt Indic | Fine-medium Fine-medium Fine-medium |
|---|---|--|---|---|-------------------------|---|
| 0-14 10 0-14 10 0-14 10 90-14 10 90-140 | by R 3/2 87 By R | 7.5YR 4/6 7.5YR 4/6 7.5YR 4/6 Reduced Matrix, CS= o all LRRs, unles (A11) | 10 3 F 3 F Covered or Coate Southerwise no Sandy Stripp Loamy Deple X Redow Deple | C M L M L M M d Sand Grains. Dted.) r Redox (S5) ed Matrix (S6) r Mucky Mineral (F1) (r Gleyed Matrix (F2) ted Matrix (F3) c Dark Surface (F6) ted Dark Surface (F7) | Silt Silt Indic | Fine-medium Fine-medium Fine-medium 2 |
| 0-14 | on, D=Depletion, RM=F tors: (Applicable to l (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Below Dark Surface iark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | 7.5YR 4/6 | 3 F 3 F | M M Image: Straight of Straightof Straightof Straight of Straight of Straightof Straigh | Silt | Fine-medium ² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) 2 cm Muck (A10) 2 rent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| ype: C=Concentratio ydric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy M Sandy G estrictive Layer (ype: epth (inches): | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Reduced Matrix, CS= o all LRRs, unles (A11) | Covered or Coate so otherwise no Sandy Loam Loam Deple X Redoo | ed Sand Grains. Ded Sand Grains. Ded J r Redox (S5) ed Matrix (S6) r Mucky Mineral (F1) (r Gleyed Matrix (F2) ted Matrix (F3) c Dark Surface (F6) ted Dark Surface (F7) | Indic | ² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| ydric Soil Indicat Histosol Histosol Black Hi Hydroge Depleted Thick Da Sandy M Sandy M Sandy G Sandy G | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| rdric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Sandy G strictive Layer (pe: pth (inches): marks: | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| dric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Sandy G strictive Layer (pe: pth (inches): | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| dric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Sandy G strictive Layer (pe: pth (inches): | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| dric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Sandy G strictive Layer (pe: pth (inches): | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| dric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (pe: pth (inches): marks: | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| dric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (pe: pth (inches): marks: | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| rdric Soil Indicat Histosol Histic Ep Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Sandy G strictive Layer (pe: pth (inches): marks: | tors: (Applicable to I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | o all LRRs, unles (A11) Rock | Sa otherwise no Sandy Stripp Loam Loam Deple X Redoo Deple | oted.) Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Histosol Histic Eg Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (pe: pth (inches): marks: | I (A1) pipedon (A2) listic (A3) en Sulfide (A4) ed Below Dark Surface eark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | (A11) Rock | Sandy Stripp Loam Deple X Redox Deple | Redox (S5) ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) Clark Surface (F6) ted Dark Surface (F7) | except MLRA 1) | 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Histic Eg Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (De: pth (inches): marks: | pipedon (A2) listic (A3) en Sulfide (A4) d Below Dark Surface lark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Rock | Stripp Loam Loam Deple X Redoo Deple | ed Matrix (S6) / Mucky Mineral (F1) (/ Gleyed Matrix (F2) ted Matrix (F3) : Dark Surface (F6) ted Dark Surface (F7) | | Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Black Hi Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (De: pth (inches): marks: | iistic (A3) en Sulfide (A4) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Rock | Loam Loam Deple X Redox Deple | y Mucky Mineral (F1) (y Gleyed Matrix (F2) ted Matrix (F3) t Dark Surface (F6) ted Dark Surface (F7) | | Very Shallow Dark Surface (TF12) Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Hydroge Depleted Thick Da Sandy M Sandy G Strictive Layer (pe: pth (inches): marks: | en Sulfide (A4) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Rock | Loam Deple X Redox Deple | y Gleyed Matrix (F2) ted Matrix (F3) Cark Surface (F6) ted Dark Surface (F7) | | Other (explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Depleted Thick Da Sandy M Sandy G strictive Layer (pe: pth (inches): marks: | d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Rock | X Deple | ted Matrix (F3) Dark Surface (F6) Ted Dark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| Thick Da Sandy M Sandy G Sandy M Sandy M Sandy M Sandy M Sandy M Sandy M Sandy M Sandy G Sandy Sandy G Sandy Sandy Sandy Sandy Sandy Sandy G Sandy G Sandy G Sandy Sandy San | ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | Rock | X Redov | a Dark Surface (F6) ted Dark Surface (F7) | | hydrology must be present, unless disturbed or |
| Sandy M Sandy G Strictive Layer (pe: pth (inches): marks: | Mucky Mineral (S1) Gleyed Matrix (S4) (if present): | | Deple | ted Dark Surface (F7) | | hydrology must be present, unless disturbed or |
| Sandy G strictive Layer (pe: pth (inches): narks: | Gleyed Matrix (S4) (if present): | | | | | hydrology must be present, unless disturbed or |
| strictive Layer (pe: pth (inches): marks: | (if present): | | Redo> | Depressions (F8) | | problematic. |
| pe: pth (inches): marks: /DROLOGY | | | | | | |
| DROLOGY | | | | | Hydric Soil Pres | sent? Yes <u>X</u> No |
| etland Hydrology | | | | | | |
| | y Indicators: | | | | | |
| | (minimum of one re | quired; check all t | | (50) | | Secondary Indicators (2 or more required |
| | Water (A1) | | | stained Leaves (B9) A, and 4B) | (Except MLRA | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| | ater Table (A2) | | | | | |
| Saturatio | | | | rust (B11) | | X Drainage Patterns (B10) |
| | Marks (B1) | | | ic Invertebrates (B13) | | Dry-Season Water Table (C2) |
| | nt Deposits (B2) | | | gen Sulfide Odor (C1) | | Saturation Visible on Aerial Image |
| <u> </u> | posits (B3) | | | ed Rhizospheres alon | | X Geomorphic Position (D2) |
| | at or Crust (B4) | | | nce of Reduced Iron (| | Shallow Aquitard (D3) |
| · · · | posits (B5) | | | t Iron Reduction in Pl | () | X Fac-Neutral Test (D5) |
| | soil Cracks (B6) | | | ed or Stressed Plants | | Raised Ant Mounds (D6) (LRR A) |
| | ion Visible on Aerial Im | | Other | (Explain in Remarks) | | Frost-Heave Hummocks (D7) |
| | y Vegetated Concave S | Sullace (BØ) | | | 1 | |
| eld Observations | s: | | | | | |
| Irface Water Present | t? Yes | No <u>X</u> | Depth (inche | s): | | |
| ater Table Present? | Yes | No X | Depth (inche | s): > 14 | Wetland Hyd | Irology Present? |
| turation Present? cludes capillary fringe) | Yes | No X | Depth (inche | s): >14 | | Yes X No |
| | | | | anastiana) if available | | |
| escribe Recorded Da | ata (stream gauge, moi | nitoring well, aerial p | hotos, previous in | spections), il available | | |
| escribe Recorded Da | | nitoring well, aerial p | notos, previous in | spections), if available | | |

| , | WETLAND | DETEF | RMINATION | I DATA FO | RM - Weste | ern Mountains, Val | leys, and Coas | PHS # _ | 7296 |
|------------------------------|--------------------------------|----------------------------|---------------------------------|---------------------------------|------------------|---|--|---------------------------------|-----------|
| Project/Site: | Sherwood I | | | City/County: | | ood/Washington | Sampling Date: | - | 2021 |
| pplicant/Owner: | OWRA Sh | erwood, I | LLC | | | State: | OR | Sampling Point: | 10 |
| vestigator(s): | | CM/CR | | Section, To | wnship, Range: | Section 29 | D, Township 2Sou | ith, Range 1We | st |
| andform (hillslope, | , terrace, etc.:) | | Swale | | Local relief (co | ncave, convex, none): | Concave | Slope (%): | 5 |
| ubregion (LRR): | | LRR A | | Lat: | 45.363 | 35 Long: | -122.8294 | Datum: | WGS84 |
| oil Map Unit Name | e: | | Aloha | silt loam | | NWI Cla | ssification: | None | |
| re climatic/hydrolo | ogic conditions o | on the site ty | /pical for this tim | e of year? | Yes | No | X (if no, expl | ain in Remarks) | |
| re vegetation | Soil | or Hy | drology X | significantly dist | urbed? | Are "Normal Circumstanc | ces" present? (Y/N) | Y | |
| re vegetation | Soil | or Hy | drology | naturally proble | matic? If needed | l, explain any answers in Re | marks.) | | |
| | | | | | | | | | |
| UMMARY OF | FINDINGS | | - | showing san | npling point | locations, transects | , important feat | ures, etc. | |
| ydrophytic Vegeta | | Yes | X No | | Is Sampled Ar | rea within | | | |
| ydric Soil Present | ? | Yes | No | X | a Wetlar | | | No X | |
| etland Hydrology | Present? | Yes | X No | | | | | | |
| PJ that hydrol | ogy is slowly are not condu | y being div ucive to re | verted throug etaining water | gh stormwater r, nor do they | r infrastructur | are present. The site is e and storm facilities. nual sheet flow from p | The geomorphic p | oosition of grad | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| roo Stratum (nl | ot aiza: | `` | % cover | Species? | Status | Number of Deminent Ore | -1 | | |
| <u>ree Stratum</u> (plo 1 | ot size: |) | | | | Number of Dominant Spec That are OBL, FACW, or I | | 4 (| (A) |
| 2 | | | | | | | AC. | (| (~) |
| | | | | | | Total Number of Dominan | ıt | | |
| , <u> </u> | | | | | | Species Across All Strata: | | 4 (| (B) |
| | | | 0 | = Total Cover | | | | | , |
| apling/Shrub Strat | <u>tum</u> (plot size | e: 30 |) | | | Percent of Dominant Spec | riec | | |
| Rubus arme | (piereize | ,. <u></u> | _/ | x | FAC | That are OBL, FACW, or | | 100% (| (A/B) |
| Crataegus d | | | 40 | X | FAC | | | | |
| Rosa pisoca | - | | 20 | X | FAC | Prevalence Index Wo | orksheet: | | |
| ļ | | | | | | Total % Cover of | Multiply by | <i>r</i> : | |
| 5 | | | | | | OBL Species | x 1 = | 0 | |
| | | | 100 | = Total Cover | | FACW species | x 2 = | 0 | |
| erb Stratum (pl | ot size: | 10) | | | | FAC Species FACU Species | x 3 = x 4 = | 0 | |
| Phalaris aru | | , | 90 | x | FACW | UPL Species | x 4 = x 5 = | 0 | |
| 、 <u> </u> | | | | | | Column Totals | 0 (A) | | В) |
| 3 4 | | | | | | Prevalence Index =E | | #DIV/0! | |
| 5 | | | | | | l hadaa a ha di a Maaa ta di | | | |
| <u> </u> | | | | | | Hydrophytic Vegetati | | anhutia Vagatatian | |
| 3 | | | | | | | 1- Rapid Test for Hydr 2- Dominance Test is | | |
| | | | 90 | = Total Cover | | | 3-Prevalence Index is | | |
| | | | | | | | 4-Morphological Adap | | upporting |
| laadu Vina Stratuu | m (plot size: | |) | | | | data in Remarks or on | a separate sheet) | |
| oody vine Stratur | | | | | | | 5- Wetland Non-Vascu | ular Plants ¹ | |
| | | | | | | , i i i i i i i i i i i i i i i i i i i | Problematic Hydrophy | tic Vegetation ¹ (Ex | plain) |
| /oody Vine Stratur 1 2 | | | | | | | | | |
| 1 2 | | | 0 | = Total Cover | | ¹ Indicators of hydric soil and disturbed or problematic. Hydrophytic | nd wetland hydrology | must be present, u | nless |

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 on Muck (M10) Histosol (A2) Black Histic (A2) Common Mucky Mineral (S1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Learny Glegod Mutrix (F2) Other (explain in Remark) Other (explain in Remark) Depleted Bedvx Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remark) Other (explain in Remark) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology music be present, unless disturbed or problematic." No _ X Pripe: | SOIL | | | | | | | | |
|---|--|---|---|--|----------------------------------|--|---|---|---|
| Other (minist) Description No Table Remarks 0-12 7.5YR 2.8/2 100 Sitt Learn Sitt Learn 11-17 7.5YR 2.8/2 98 10YR 4/6 2 C M Sitt Learn Fine 11-20 10YR 3/2 95 10YR 4/6 5 C M Sitt Learn Coarse 1720 10YR 3/2 95 10YR 4/6 5 C M Sitt Learn Coarse 1720 10YR 3/2 95 10YR 4/6 5 C M Sitt Learn Coarse 1720 10YR 5/2 5 0 Sitt Learn Coarse Sitt Learn Coarse 1720 10YR 5/2 5 0 2 Coarse 2 Coarse< | | | he depth i | needed to docume | | | firm the absend | ce of indicators.) | |
| 0.12 7.5YR 2.5/2 100 10YR 4/6 2 C M Silt Loam Fine 17.20 10YR 3/2 95 10YR 4/6 5 C M Silt Loam Coarse iyne: C-Concentration, D-Depidelon, RM-Rational Matrix, CS-Concent or Coaled Sand Grain. 'Location: PL-Pore Lining, M=Matrix. iyne: C-Concentration, D-Depidelon, RM-Rational Matrix, CS-Concent or Coaled Sand Grain. 'Location: PL-Pore Lining, M=Matrix. iyne: C-Concentration, D-Depidelon, RM-Rational Matrix, CS-Concent or Coaled Sand Grain. 'Location: PL-Pore Lining, M=Matrix. iyne: C-Concentration, D-Depidelon, RM-Rational Matrix, CS-Concent or Coaled Sand Grain. 'Location: PL-Pore Lining, M=Matrix. iyne: C-Concentration, D-Depidelon, RM-Rational Matrix, CS-Concent or Coaled Sand Grain. 'Location: PL-Pore Lining, M=Matrix. Hittosol (A1) Sandy Grades Matrix (CS) Pore Parent Matrix (TF2) Back Haid; (A2) Licary Grades Matrix (CS) Pore Parent Matrix (TF2) Depided Bark Surface (A11) Depided Matrix (F2) Other (region in Remarks) Sandy Grady Matrix (SA) Each Matrix (CA) Redox Day Surface (F7) short (VPCDLOCY Popided Matrix (F2) Popided Matrix (F2) Other (F1) Sandy Grady Indicators (G1) Saturation (A2) <th>-</th> <th>-</th> <th>%</th> <th>Color (moist)</th> <th></th> <th>4</th> <th>Loc²</th> <th>Texture</th> <th>Remarks</th> | - | - | % | Color (moist) | | 4 | Loc ² | Texture | Remarks |
| 12-17 7.5 VR 2.5/2 98 10 VR 4/6 2 C M Silt Loam Fine 17-20 10 VR 3/2 95 10 VR 4/6 5 C M Silt Loam Coarse Figure 2-Concentration, D=Deptrion, RM=Roluend Marks, CS=Converted or Coated Sard Grains. *1, coation PL=Port Lining, MMdarix. PL=Port Lining, MMdarix. Fyper 2-Concentration, D=Deptrion, RM=Roluend Marks, CS=Converted or Coated Sard Grains. *1, coation PL=Port Lining, MMdarix. Fyper 2-Concentration, D=Deptrion, RM=Roluend Marks, CS=Converted or Coated Sard Grains. *1, coation PL=Port Lining, MMdarix. Fyper 2-Concentration, D=Deptrion, RM=Roluend Marks, CS=Converted or Coated Sard Grains. *1, coation PL=Port Lining, MMdarix. Fyper 2-Concentration, D=Deptrion, RM=Roluend Marks, CS=Converted or Coated Sard Grains. *1, coation PL=Port Lining, MMdarix. Mytor Soil Indicators. (A) Loamy Murks (KI) Ref Puert Marks (CI) Halsos Hate (A) Loamy Murks (KI) Ref Puert Marks (CI) Ref Puert Marks (CI) Basis Hate (A) Loamy Murks (SE) 2 cm Marks (CI) Puert Marks (CI) Basis Hate (A) Loamy Murks (SE) Ref Depteted Dark Sardney (FI) Puerted Barks (FI) Basis Hate (A) Depteted Dark Sardney (FI) Depteted Da | · · · · | ` <u>`</u> | | | | | | | |
| 17-20 10YR 3/2 95 10YR 4/6 5 C M Silt Loam Coarse Type: C=0-concentration, D=0-balaction, RME-Floatured Matrix, C=0=Covered or Coated Sand Grains, | - | | | 10YR 4/6 | | <u> </u> | м | | Fine |
| Type: C:Conventration, D=Depletion, RM=Reduced Matrix, CS=Covered or Conited Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hallocol (A1) Sandy Rodox (S6) 1.Indicators for Problematic Hydric Solis ¹ : Hallocol (A1) Sandy Rodox (S6) 2.Om Mack (A10) Hallocol (A1) Sandy Rodox (S6) 2.Om Mack (A10) Hallocol (A1) Learny Marky Matrix (S1) Real Perent Material (F2) Depleted Balox Dark Surbace (A11) Depleted Matrix (F2) Other (explain in Remarks) Depleted Balox Dark Surbace (A11) Depleted Matrix (F2) Other (explain in Remarks) Sandy Gleged Matrix (S4) Depleted Dark Surface (F6) Indicators of hydrophytic vegatation and wotland hydrology most be present, unless datubed or problematics. Type: Type: Type: No X Sandy Gleged Matrix (S4) Retark trees (B6) Water failed Calcors: Predox Depressions (F8) Primary Indicators (A12) Saturbace Matrix (S4) Saturbace Mater (A11) Dupleter (A12) Saturbace Matrix (S4) Retark trees (B6) Water rational Lenvers (B6) (Except MLRA Water rational Lenvers (B7) Type: Type: No X Secondary Indicators (2 or more required (C2) Saturbace Mater (A11) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | |
| Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histool (A1) Sandy Redox (S5) 2 on Muck (M10) Histool (A2) Standy Redox (S5) 2 on Muck (M10) Black Histo (A3) Loamy Glaged Matrix (F2) Redox Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) ************************************ | 1/-20 | | 90 | | | | | JIIL LUani | CUAISE |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Historia (A1) Sandy Redx (S5) 2 or Muck (A10) Historia (A2) Black Histic (A2) Carry Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Hydrogen Sulfde (A4) Loarry Glayed Matrix (F2) Other (explain in Remark) Other (explain in Remark) Depleted Badw Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remark) Other (explain in Remark) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) ************************************ | | | | | | | | | |
| type: Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 on Muck (M10) Histosol (A2) Biack Histic (A2) Carry Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Hydrogen Suffice (A4) Learny Mucky Mineral (F1) Other (explain in Remark) Other (explain in Remark) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Trick Dark Surface (A12) Redox Dark Surface (F5) Sandy Cleved Matrix (F3) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology music be present, unless disturbed or problematic." Ype: Sandy Cleved Matrix (F3) Redox Dark Surface (F7) "Indicators (Intimum of one required; check all that apply) Startace (Matrix (A3) Redox Dark Surface (F8) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Hydric Soil Present? Yes No X Secondary Indicators (C2) Startace (F1) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Startace (F1) Dark Surface (F1) Surface Water (A1) Yes S | | | | | | | | | |
| typeric Soil Indicators: (Applicable to all LRRs, unless otherwise notod.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 on Muck (A10) Histosol (A2) Stringed Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Glayed Matrix (S6) Red Parent Material (TF2) Depleted Bdav Dark Surface (A11) Depleted Dark Surface (F1) Other (explain in Remarks) Sandy Macky Mineral (S1) Depleted Dark Surface (F2) ³ Indicators of hydrophytic vegetation and wetland hydrology mate to prosent, unless disturbed or problematic. Ype: | | | | | | | | | |
| http://doi.org/10.1001/ | | | | | | | | | |
| Histosol (A1) Sandy Redox (S5) 2 orn Muck (A10) Histos Epigedion (A2) Stripped Matrix (S6) Red Parent Material (TF2) Histos Epigedion (A2) Loarny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Other (explain in Remarks) Depleted Biolow Dark Surface (A11) Depleted Matrix (F3) ** Sandy Gleyed Matrix (F3) Redox Dark Surface (F7) ** Sandy Gleyed Matrix (S4) Redox Depressions (F8) ** Pypei: | Type: C=Con | centration, D=Depletic | on, RM=Re | educed Matrix, CS= | Covered or C | Coated Sand | d Grains. | | |
| Histic Epipedon (A2) Shipped Matrix (S6) Red Parent Material (TF2) Bick Histic (A3) Loarry Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Depieted Below Dark Surface (A11) Depieted Matrix (F2) Other (explain in Remarks) Depieted Matrix (F2) Redox Dark Surface (F7) *Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or Sandy Glaved Matrix (S4) Sandy Macky Mineral (S1) Depieted Matrix (F2) *Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or Sandy Glaved Matrix (S4) Restrictive Layer (If present): *yprology must be present, unless disturbed or Sandy Glaved Matrix (S4) Wetland Hydrology Indicators: No X YPROLOGY Weter stained Leaves (B9) (Except MLRA Water stained Leaves (B9) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) Surface Water (A1) Saturation (B1) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B1) Drainage Patterns (B10) Water Marks (B2) Saturation Visible Odor (C1) Saturation Visible on Artal Imagery (B2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Artal Imagery (B2) Sunface Visetr(I) <td>ydric Soil</td> <td>Indicators: (Appli</td> <td>cable to</td> <td>all LRRs, unless</td> <td>s otherwis</td> <td>e noted.)</td> <td></td> <td>Indic</td> <td>ators for Problematic Hydric Soils³:</td> | ydric Soil | Indicators: (Appli | cable to | all LRRs, unless | s otherwis | e noted.) | | Indic | ators for Problematic Hydric Soils ³ : |
| Black Histic (A3) Leamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfdic (A4) Leamy Mucky Mineral (F1) (except MLRA 1) Other (explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Tinck Dark Surface (A12) Redox Dark Surface (F0) Sandy Gleyd Matrix (S4) Depleted Dark Surface (F7) Tinck Darks Durface (M12) Redox Dark Surface (F7) Sandy Gleyd Matrix (S4) Redox Dark Surface (F7) Tinck Darks Durface (M12) No _ X Sectrictive Layer (If present): Type: | | Histosol (A1) | | | S | andy Redox | k (S5) | | 2 cm Muck (A10) |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Chier (explain in Remarks) Depleted Belsov Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology inus to proteinable. Sandy Mickly Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology inus to proteinable. Restrictive Layer (If present): | | Histic Epipedon (A2) | | | | | | | Red Parent Material (TF2) |
| Depted Below Dark Surface (A11) Depted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Mucky Minaral (S1) Depted Dark Surface (F7) Sandy Mucky Minaral (S1) Redox Depressions (F8) Prime Problematic Restrictive Layer (if present): Hydric Soil Present? Yes Type: Present Perturn Indicators (Infinitum of one required: check all that apply) Secondary Indicators (2 or more required) Primary Indicator (Infinitum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Saturation (A3) Saturation (B9) Saturation (A3) Saturation (B1) Drainage Patterns (B10) Secondary Indicators (B2) Hydrogen Sufface Odr (C1) Saturation (Vaib) Secondary Indicators (B2) Hydrogen Sufface Odr (C1) Saturation (Vaib) Secondary Indicators (B6) Recent tron Reduction in Plowed Solis (C3) X Geomorphic Position (D2) Alguid to recreate Bit (B1) Optide Odr (C1) Saturation (S0) Saturation (C4) Subtrace Sid Cracks (B6) Recent tron Reduction in Plowed Solis (C3) X Geomorphic Position (D2) Alguid to recreate Surface (B6) Staturation Present? Yes <td></td> <td>Black Histic (A3)</td> <td></td> <td></td> <td>L</td> <td>oamy Mucky</td> <td>y Mineral (F1) (e</td> <td>xcept MLRA 1)</td> <td>Very Shallow Dark Surface (TF12)</td> | | Black Histic (A3) | | | L | oamy Mucky | y Mineral (F1) (e | xcept MLRA 1) | Very Shallow Dark Surface (TF12) |
| Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrobytic vegetation (A1) Problematic Hydrobytic vegetation (A1) No X Surface Vator (A1) Surface (B1) Depate (B1) Depate (B1) | | Hydrogen Sulfide (A4) |) | | L | oamy Gleye | ed Matrix (F2) | | Other (explain in Remarks) |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wethed or problematic. Restrictive Layer (if present): Type: | | Depleted Below Dark | Surface (A | 411) | D | epleted Ma | trix (F3) | | |
| | | Thick Dark Surface (A | 412) | | R | tedox Dark | Surface (F6) | | a |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Restrictive Layer (If present): | | Sandy Mucky Mineral | (S1) | | D | epleted Dar | rk Surface (F7) | | |
| Type: | | Sandy Gleyed Matrix | (S4) | | R | ledox Depre | essions (F8) | | |
| Property (inches): Hydric Soil Present? Yes No X Attract Stand Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) High Water Table (A2) 1, 2, 4A, and 4B) Water stained Leaves (B9) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Suffde Odor (C1) Saturation Visible on Aerial Imager Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Ayal Mat or Crust (B4) Presence of Reduced from (C4) Shallow Aquilard (D3) Saturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Fost-Heave Hummocks (D7) Sparace Soil Cracks (B6) Stunted or Stressed Plants (C1) (LRR A) Raised Ant Mounds (D6) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Present? Yes No X Depth (inches): >20 Yes No Mo Vater Table Present? Yes No X Depth (inches): | estrictive | Layer (if present): | | | | | | | |
| Properth (inches): Hydric Soil Present? Yes No X Remarks: | ype: | | | | | | | | |
| Improve the second and the second anetal term second and the second and the second | | | | | | | | | |
| HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; heads apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) Water stained Leaves (B1) Saturation (A3) Salt Crust (B1) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Drift Deposits (B2) Hydrogen Suffide Odor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Agai Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Raised Ant Mounds (D6) (LRR A) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Present? Yes No Water Table Present? Yes No Z 20 Saturation Present? Yes No Z 20 Yes No Z Depth (inches): >20 Yes | epth (inches | ;): | | | | i. | | Hydric Soil Pres | sent? Yes No <u>X</u> |
| Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Satt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Sturface Soil Cracks (B6) Sturface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Water Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Yets No X Depth (inches): >20 Yets No No Surface Water Present? Yes No X Depth (inches): >20 Yets No Yets No | | s): | | | | | | Hydric Soil Pre | sent? Yes <u>No X</u> |
| High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagen Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >20 Yes X No Stauration Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X | iyDROLO | GY | 5: | | | | | Hydric Soil Pres | sent? Yes <u>No X</u> |
| Inight Water Table (A2) Saturation (A3) Saturation (A3) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery Orif Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >20 Field Observations: No X Depth (inches): >20 Water Table Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded | iemarks: | IGY drology Indicators | | uired; check all th | nat apply) | | | Hydric Soil Pres | sent? Yes <u>No X</u> |
| Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | iemarks: IYDROLO Vetland Hy Primary India | GY drology Indicators cators (minimum of | | uired; check all th | V | | d Leaves (B9) (t | | Secondary Indicators (2 or more required)Water stained Leaves (B9) |
| Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >20 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | iemarks: IYDROLO Vetland Hy Primary Indio | GY drology Indicators cators (minimum of Surface Water (A1) | f one req | uired; check all th | V | | d Leaves (B9) (t | | Secondary Indicators (2 or more required)Water stained Leaves (B9) |
| Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): | IYDROLO | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all th | W 1, | , 2, 4A, and | d Leaves (B9) (4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Peth (inches): >20 Field Observations: No X Depth (inches): >20 Water Table Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Scaturation Present? Yes No X Depth (inches): >20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Yes X No | IYDROLO Vetland Hy | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all th | N S A | , 2, 4A, and Salt Crust (B Aquatic Inver | d Leaves (B9) (F I 4B) 11) tebrates (B13) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) |
| Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Pepth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Statialable: | IYDROLO Vetland Hy | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all th | N N H | , 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su | d Leaves (B9) (F 4B) 11) tebrates (B13) Iffide Odor (C1) | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery |
| Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Statiable: | IYDROLO | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | <u>f one req</u> 2) 32) | uired; check all th | | , 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: | d Leaves (B9) (f 4B) 11) tebrates (B13) Iffide Odor (C1) zospheres along | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) |
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| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Saturation Present? Yes No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | IYDROLO | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | <u>f one req</u> 2) 32) 4) | uired; check all th | 1, S A H O P R | , 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F | d Leaves (B9) (F I 4B) 11) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo | Except MLRA 9 Living Roots (C3) 14) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) |
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| Water Table Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >20 Yes Yes X No (includes capillary fringe) No X Depth (inches): >20 Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: If available: If available: | IPMARKS: | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C | f one req 2) 32) 4) B6) Aerial Imag | gery (B7) | 1, А Н Р R S | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St | d Leaves (B9) (F 4B) 11) tebrates (B13) Iffide Odor (C1) zospheres along Reduced Iron (C Reduction in Plot tressed Plants (I | Except MLRA 9 Living Roots (C3) 14) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
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| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | International In | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes | f one req 2) 32) 4) B6) Aerial Imag | gery (B7) urface (B8) No <u>X</u> | | , 2 , 4A , and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St Dther (Explai | d Leaves (B9) (F I 4B) 11) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) | Except MLRA 9 Living Roots (C3) 44) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| | Iemarks: IYDROLO Vetland Hy Primary India Primary India ield Obser urface Water /ater Table P | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes Iresent? Yes | f one req 2) 32) 4) B6) Aerial Imag | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Dresence of I Recent Iron F Stunted or St Dther (Explai | d Leaves (B9) (F I 4B) 11) tebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plov tressed Plants (I in in Remarks) >20 | Except MLRA 9 Living Roots (C3) 44) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| | Imarks: | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes sent? Yes | f one req 2) 32) 4) B6) Aerial Imag | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | | , 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Dresence of I Recent Iron F Stunted or St Dther (Explai | d Leaves (B9) (F I 4B) 11) tebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plov tressed Plants (I in in Remarks) >20 | Except MLRA 9 Living Roots (C3) 44) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Brology Present? |
| emarks: | Imarks: | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes resent? Yes sent? Yes sent? Yes | f one required (2) (32) (4) (2) (32) (32) (32) (33) (34) (34) (34) (34) (34) (34) (34 | gery (B7) urface (B8) No X No X No X | | , 2, 4A, and Galt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St Dther (Explain inches): | d Leaves (B9) (F 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >20 >20 | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Brology Present? |
| emarks: | Imarks: | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes resent? Yes sent? Yes sent? Yes | f one required (2) (32) (4) (2) (32) (32) (32) (33) (34) (34) (34) (34) (34) (34) (34 | gery (B7) urface (B8) No X No X No X | | , 2, 4A, and Galt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St Dther (Explain inches): | d Leaves (B9) (F 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >20 >20 | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Brology Present? |
| | Imarks: | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes resent? Yes sent? Yes sent? Yes | f one required (2) (32) (4) (2) (32) (32) (32) (33) (34) (34) (34) (34) (34) (34) (34 | gery (B7) urface (B8) No X No X No X | | , 2, 4A, and Galt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St Dther (Explain inches): | d Leaves (B9) (F 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >20 >20 | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Brology Present? |
| | Iemarks: IYDROLO Vetland Hy Primary India Primary India Prima | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C vations: Present? Yes resent? Yes sent? Yes sent? Yes | f one required (2) (32) (4) (2) (32) (32) (32) (33) (34) (34) (34) (34) (34) (34) (34 | gery (B7) urface (B8) No X No X No X | | , 2, 4A, and Galt Crust (B Aquatic Inver Hydrogen Su Dxidized Rhi: Presence of I Recent Iron F Stunted or St Dther (Explain inches): | d Leaves (B9) (F 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >20 >20 | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Brology Present? |

| | WETLAND | | MINATION | | RM - Weste | rn Mountains, Val | leys, and Coa | PHS # st Region | 7296 |
|------------------------------|--------------------------|-----------------|----------------|--------------------|---------------------------|--|-----------------------|----------------------------------|------------------|
| Project/Site: | Sherwood | | | City/County: | | ood/Washington | Sampling Date: | - | 5/2021 |
| Applicant/Owner: | OWRA Sh | erwood, Ll | LC | , , | | State: | | Sampling Point: | 11 |
| nvestigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township 2So | | est |
| andform (hillslop | oe, terrace, etc.:) | | Slope | - ' | | icave, convex, none): | None | Slope (%): | 2 |
| Subregion (LRR): | | LRR A | | Lat: | 45.364 | · · · · · | -122.8309 | Datum: | WGS84 |
| Soil Map Unit Nar | | | Huberl | y silt loam | | | ssification: | None | |
| | blogic conditions of | on the site tvn | | | Yes | No | X (if no, exp | | |
| Are vegetation | | or Hydr | | significantly dist | | Are "Normal Circumstand | · · · · | Y | |
| Are vegetation | Soil | _ ` | | | | explain any answers in Re | | <u> </u> | |
| | | | | | | | marks. | | |
| SUMMARY C | OF FINDINGS | – Attach | site map s | showing san | npling point | locations, transects | , important fea | tures, etc. | |
| Hydrophytic Vege | tation Present? | Yes | No | X | | | | | |
| Hydric Soil Prese | nt? | Yes | No | X | Is Sampled Ar a Wetlar | | | No X | |
| Netland Hydrolog | gy Present? | Yes | No | x | | - | | | |
| Remarks: | Precipitation is | s below no | rmal, which | is now comm | I Ion. As such, v | we make sure to evalu | ate a dry-season | water table in | areas of |
| ower topogra | phy, or in area | as where hy | ydrophytic v | egetation and | l hydric soils a | are present. The site is | surrounded by r | new developme | ent. It is our B |
| | - | - | - | | | l storm facilities. The g eet flow from pervious | | - | upland slopes |
| | N - Use scier | - | | | | | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| | | | % cover | Species? | Status | | | | |
| <u>Free Stratum</u> (| | 30) | 20 | v | FAC | Number of Dominant Spe | | • | (A) |
| 1 Populus ba | | | <u>20</u> 5 | <u> </u> | FAC (UPL) | That are OBL, FACW, or | FAC: | 3 | (A) |
| 2 Arbutus III 3 | enziesii | | 5 | | (UPL) | Total Number of Dominar | •+ | | |
| 4 | | | | | | Species Across All Strata | | 7 | (B) |
| • | | | 25 | = Total Cover | | | · | • | (2) |
| Conling/Chruh Ctr | ratum (), , | - | <u> </u> | | | | | | |
| Sapling/Shrub Str | | e: <u>30</u> |) 20 | v | | Percent of Dominant Spec | | 43% | (A/B) |
| 1 Cytisus sc 2 Populus ba | • | | 5 | <u> </u> | <u>(UPL)</u> FAC | That are OBL, FACW, or | FAC. | 43 % | (A/D) |
| 3 Rubus arm | | | 5 | | FAC | Prevalence Index Wo | orksheet: | | |
| 4 | | | | | | Total % Cover of | Multiply b | V: | |
| 5 | | | | | | OBL Species | x 1 = | | |
| | | | 30 | = Total Cover | | FACW species | x 2 = | 0 | |
| | | _ | | | | FAC Species | x 3 = | 0 | |
| | plot size: | 10) | | | | FACU Species | x 4 = | | |
| 1 Hypericum | • | | 30 | <u> </u> | FACU | UPL Species | x 5 = | | |
| 2 Agrostis ca | • | | 30 | <u> </u> | FAC | Column Totals | 0 (A) | 0 | (B) |
| 3 Portulaca of 4 Anthoxant | oieracea hum odoratun | | 20 | <u> </u> | FAC FACU | Dravelance Inday - | | #DIV/0! | |
| 4 Antinoxanti 5 | | <u> </u> | 20 | | FACU | Prevalence Index = | D/A = | #DIV/U! | |
| 6 | | | | | | Hydrophytic Vegetat | ion Indicators: | | |
| 7 | | | | | | | 1- Rapid Test for Hyd | Irophytic Vegetatio | n |
| 8 | | | | | | | 2- Dominance Test is | | |
| | | | 100 | = Total Cover | | | 3-Prevalence Index is | $s \leq 3.0^1$ | |
| | | | | | | | 4-Morphological Ada | otations ¹ (provide s | supporting |
| Noody Vine Strat | tum (plot size: | |) | | | | data in Remarks or o | | t) |
| 1 | | | | | | | 5- Wetland Non-Vaso | | |
| 2 | | | | | | | Problematic Hydroph | | |
| | | - | 0 | = Total Cover | | ¹ Indicators of hydric soil a disturbed or problematic. | nd wetland hydrology | must be present, | uniess |
| | | | | | | Hydrophytic | | | |
| | | | | | | | | | |
| % Bare Ground ir | n Herb Stratum | 0 | | | | Vegetation Present? | Yes | No | X |

| SOIL | | | PHS # | 72 | 96 | | | Sampling Point: 11 | |
|--|--|------------|------------------------|---------------|-------------------|-------------------|---------------------|--|---------|
| Profile Descrip | ption: (Describe to t | he depth | needed to docume | nt the indic | cator or cor | nfirm the absen | ce of indicators.) | | |
| Depth | Matrix | | | | Features | . 2 | _ | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-5 | 7.5YR 2.5/2 | 99 | 5YR 3/4 | 1 | <u> </u> | M | Loam | Fine | |
| 5-6 | 10YR 3/3 | 100 | | | | . <u> </u> | Sand | | _ |
| 6-10 | 10YR 3/3 | 40 | | | | | Sandy Clay Loam | Mixed Matrix | _ |
| 6-10 | 10YR 5/3 | 40 | | | | | Sandy Clay Loam | Mixed Matrix | _ |
| 6-10 | 10YR 4/2 | 20 | | | | | Sandy Clay Loam | Mixed Matrix | _ |
| 10-20 | 7.5YR 2.5/3 | 100 | | | | | Sand | | _ |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Conc | entration, D=Depletion | on, RM=R | educed Matrix, CS= | Covered or | Coated San | d Grains. | | ² Location: PL=Pore Lining, M=Matrix. | |
| Hydric Soil I | ndicators: (Appli | cable to | all LRRs, unles | s otherwi | se noted.) | | Indica | tors for Problematic Hydric Soils ³ : | |
| ۱۲ | Histosol (A1) | | | | Sandy Redo | x (S5) | | 2 cm Muck (A10) | |
| ۱۲ | Histic Epipedon (A2) | | | | Stripped Ma | trix (S6) | | Red Parent Material (TF2) | |
| E | Black Histic (A3) | | | I | _oamy Muck | (y Mineral (F1) | except MLRA 1) | Very Shallow Dark Surface (TF12 |) |
| ŀ | Hydrogen Sulfide (A4 |) | | I | _oamy Gleye | ed Matrix (F2) | | Other (explain in Remarks) | |
| | Depleted Below Dark | Surface (| A11) | | Depleted Ma | atrix (F3) | | | |
| ۲ ۲ | Thick Dark Surface (A | A12) | | I | Redox Dark | Surface (F6) | | | |
| | Sandy Mucky Mineral | (S1) | | | Depleted Da | rk Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetlan | |
| | Sandy Gleyed Matrix | (S4) | | ı | Redox Depre | essions (F8) | | hydrology must be present, unless disturbed or problematic. | , |
| Restrictive I | _ayer (if present): | | | | | | 1 | | |
| | | | | | | | | | |
| Type: Depth (inches | | | | | - | | Ubudaia Cail Daaa | | |
| |) | | | | - | | Hydric Soil Prese | ent? Yes <u> </u> | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | drology Indicator | s: | | | | | | | |
| | ators (minimum o | | wirod: chock all t | hat apply) | | | | Secondary Indicators (2 or more require | d) |
| | , | i one req | ulleu, check all ti | | Nator staine | ed Leaves (B9) (| Except MI BA | Secondary Indicators (2 or more required | <u></u> |
| | Surface Water (A1) High Water Table (A2 | 2) | | | 1, 2, 4A, and | | | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) | |
| | Saturation (A3) | <u>~</u>) | | | Salt Crust (E | - | | Drainage Patterns (B10) | |
| | Water Marks (B1) | | | | | rtebrates (B13) | | Dry-Season Water Table (C2) | |
| | Sediment Deposits (E | 82) | | | | ulfide Odor (C1) | | Saturation Visible on Aerial Image | |
| | Drift Deposits (B3) | , | | | | . , | g Living Roots (C3) | Geomorphic Position (D2) | 19 (00) |
| | Algal Mat or Crust (B4 | 4) | | | | Reduced Iron (| · · | Shallow Aquitard (D3) | |
| | ron Deposits (B5) | ., | | | | | owed Soils (C6) | Fac-Neutral Test (D5) | |
| | Surface Soil Cracks (| B6) | | | | tressed Plants (| () | Raised Ant Mounds (D6) (LRR A) | |
| | nundation Visible on | | agery (B7) | | | ain in Remarks) | | Frost-Heave Hummocks (D7) | |
| | Sparsely Vegetated C | | | | erner (Expre | | | | |
| | | | (-) | | | | T | | |
| Field Observ | | | | | | | | | |
| Surface Water | | | No <u>X</u> | | inches): | | | | |
| Water Table Pr | | | No <u>X</u> | | inches): | >20 | Wetland Hydr | ology Present? | |
| Saturation Pres (includes capillary | | | No <u>X</u> | Depth (| inches): | >20 | | Yes NoX | — |
| Describe Reco | rded Data (stream ga | auge mon | itoring well aerial pl | notos previo | ous inspectio | ons) if available | | | |
| | laoa Dala (olioani ge | ago, mon | tioning won, donar pr | lotoo, provid | | | | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| i tomanto. | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| vicet/Site: | Sherwood I | ndustrial | Park | Citu/Countra | Charry | ood/Washington | Committee | na Doto: | 40/6 | /2021 |
|-----------------------|----------------------|-------------|--------------------|-----------------------|-------------------------|--|----------------------|------------------------|------------------------------|------------|
| oject/Site: | | | | City/County: | Sherw | 0 | | ng Date: | | |
| blicant/Owner: | OWRA Sh | , | | o " T | | State: | | | ampling Point: | 12 |
| stigator(s): | | СМ | | Section, To | wnship, Range: | | | | n, Range 1We | |
| dform (hillslope, | terrace, etc.:) | | Ditch | | | ncave, convex, none): | Con | | Slope (%): | 2 |
| region (LRR): | | LRR A | | Lat: | 45.36 | | | 8326 | Datum: | WGS84 |
| Map Unit Name | | | | ama loam | | | assification: | | None | |
| - | • | | pical for this tim | | Yes | No | ` | • | n in Remarks) | |
| vegetation | Soil | _ | | significantly dist | | Are "Normal Circumstan | | ? (Y/N) | <u> </u> | |
| vegetation | Soil | or Hyd | drology | naturally problem | matic? If needeo | l, explain any answers in Re | emarks.) | | | |
| IMMARY OF | FINDINGS | – Attac | h site map s | showing san | npling point | locations, transects | s, importa | nt featur | es, etc. | |
| rophytic Vegetat | | Yes | X No | | | | -, | | , | |
| dric Soil Present? | | Yes | No | | Is Sampled A a Wetla | | | N | 5 X | |
| tland Hydrology | | Yes | X No | | a wella | iiu r | | | | |
| | | below n | | | on As such | we make sure to evalu | iate a dry-s | eason wa | ter table in a | areas of |
| | • | | | | | are present. The site is | - | | | |
| | - | - | - | | | d storm facilities. The | | - | - | upland slo |
| site are not c | | - | | - | e continual sh | eet flow from pervious | s upper slo | pes as be | efore. | |
| GETATION | - USe Scien | | absolute | b. Dominant | Indicator | Dominance Test wo | rksheet [.] | | | |
| | | | % cover | Species? | Status | | | | | |
| <u>e Stratum</u> (plo | ot size: | 30) | | | | Number of Dominant Spe | ecies | | | |
| Populus bals | samifera | | 5 | X | FAC | That are OBL, FACW, or | FAC: | | 5 | (A) |
| | | | | | | | | | | |
| | | | | | | Total Number of Domina | | | _ | |
| | | | | | | Species Across All Strata | a: | | 5 | (B) |
| | | | 5 | = Total Cover | | | | | | |
| oling/Shrub Strate | | e: 30 |) | | | Percent of Dominant Spe | cies | | | |
| Populus bals | samifera | | 10 | <u> </u> | FAC | That are OBL, FACW, or | r FAC: | 10 | 00% | (A/B) |
| | | | | | | Drevelores Index W | | | | |
| | | | | | | Prevalence Index W | | Autichelse | | |
| | | | | | | Total % Cover of OBL Species | <u>.</u> | /lultiply by: x 1 = | - 0 | |
| | | | 10 | = Total Cover | | FACW species | | x 2 = | 0 | |
| | | | | | | FAC Species | | x 3 = | 0 | |
| <u>b Stratum</u> (plo | ot size: | 10) | | | | FACU Species | | x 4 = | 0 | |
| Lotus cornic | ulatus | | 20 | Х | FAC | UPL Species | | x 5 = | 0 | |
| Agrostis cap | oillaris | | 10 | X | FAC | Column Totals | 0 (/ | A) | 0 | (B) |
| Holcus lanat | us | | 10 | X | FAC | | | | | |
| Anthoxanthu | ım odoratum | <u> </u> | 5 | | FACU | Prevalence Index = | B/A = | #D | IV/0! | |
| | | | | | | | | | | |
| | | | | | | Hydrophytic Vegetat | | | | |
| | | | | | | | 2- Dominanc | | hytic Vegetatio | n |
| | | | 45 | = Total Cover | | ^ | 3-Prevalence | | | |
| | | | | | | | | | ions ¹ (provide s | supporting |
| ody Vine Stratun | <u>n</u> (plot size: | |) | | | | data in Rema | arks or on a | separate sheet | .) |
| | | | - | | | | 5- Wetland N | Ion-Vascula | r Plants ¹ | |
| | | | | | | | Problematic | Hydrophytic | Vegetation ¹ (E | xplain) |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil a | and wetland h | ydrology mu | ust be present, u | unless |
| | | | | | | disturbed or problematic. | | | | |
| | | | | | | م الحيط مرم المرجل | | | | |
| Bare Ground in H | lerb Stratum | F | 55 | | | Hydrophytic Vegetation | Yes | х | No | |

| SOIL | | | PHS # | 729 | 96 | _ | | Sampling Point: 12 |
|--------------------|-----------------------|------------|-------------------------|---------------|-------------------|----------------------------|---------------------|--|
| | ption: (Describe to | the depth | needed to docume | | | onfirm the absen | ce of indicators.) | |
| Depth | Matrix | | | | Features | Loc ² | - · | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | | Texture | Remarks |
| 0-8 | 10YR 3/3 | 100 | | | | | Sandy Loam | 0 |
| 8-13 | 10YR 3/4 | 90 | 10YR 3/6 | 10 | <u> </u> | <u>M</u> | Loamy Sand | Coarse |
| 13-17 | 10YR 3/4 | 85 | 10YR 3/6 | | <u> </u> | <u>M</u> | Loamy Sand | Coarse |
| 13-17 | | | 10YR 6/4 | 5 | С | M | Loamy Sand | Coarse |
| | | | | <u> </u> | | | | |
| | | <u> </u> | | · | | | | |
| | | | | <u> </u> | | | | |
| | | | | | | | | |
| | centration, D=Depleti | | | | | | | ² Location: PL=Pore Lining, M=Matrix. |
| - | Indicators: (Appl | icable to | all LRRs, unles | | | | Indic | ators for Problematic Hydric Soils ³ : |
| <u></u> | Histosol (A1) | | | s | Sandy Red | dox (S5) | | 2 cm Muck (A10) |
| . <u> </u> | Histic Epipedon (A2) | | | | | latrix (S6) | | Red Parent Material (TF2) |
| I | Black Histic (A3) | | | L | .oamy Mu | cky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | 4) | | L | oamy Gle | eyed Matrix (F2) | | Other (explain in Remarks) |
| . <u> </u> | Depleted Below Dark | Surface (| A11) | C | Depleted N | Matrix (F3) | | |
| | Thick Dark Surface (| A12) | | F | Redox Dar | rk Surface (F6) | | 3 |
| : | Sandy Mucky Minera | l (S1) | | C | Depleted D | Dark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| ; | Sandy Gleyed Matrix | (S4) | | F | Redox Dep | pressions (F8) | | problematic. |
| Restrictive I | _ayer (if present) | : | | | | | | |
| Type: | | | | | | | | |
| Depth (inches | .): | | | | • | | Hydric Soil Pres | sent? Yes No X |
| Remarks: | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| | drology Indicator | 's: | | | | | | |
| Primary India | cators (minimum c | of one rec | wired: check all th | hat apply) | | | | Secondary Indicators (2 or more required) |
| | Surface Water (A1) | one rec | ulled, check all ti | 11 2/ | Vater stai | ned Leaves (B9) (I | Except MLRA | Water stained Leaves (B9) |
| | High Water Table (A | 2) | | | , 2, 4A, a | | | (MLRA1, 2, 4A, and 4B) |
| | Saturation (A3) | _) | | 9 | Salt Crust | (B11) | | X Drainage Patterns (B10) |
| | Water Marks (B1) | | | | | vertebrates (B13) | | Dry-Season Water Table (C2) |
| | Sediment Deposits (I | 32) | | | - | Sulfide Odor (C1) | | Saturation Visible on Aerial Imagery (C9) |
| | Drift Deposits (B3) | , | | | | | g Living Roots (C3) | X Geomorphic Position (D2) |
| | Algal Mat or Crust (B | 4) | | P | Presence | of Reduced Iron (C | 24) | Shallow Aquitard (D3) |
| | ron Deposits (B5) | | | م | Recent Iro | n Reduction in Plo | wed Soils (C6) | Fac-Neutral Test (D5) |
| X | Surface Soil Cracks | (B6) | | s | Stunted or | Stressed Plants (I | D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| | nundation Visible on | Aerial Ima | agery (B7) | C | Other (Exp | olain in Remarks) | | Frost-Heave Hummocks (D7) |
| | Sparsely Vegetated (| Concave S | urface (B8) | | | | | |
| Field Obser | vations: | | | | | | | |
| Surface Water | Present? Yes | | No X | Depth (i | inches): | | | |
| Water Table P | resent? Yes | | No X | Depth (i | inches): | >17 | Wetland Hyd | Irology Present? |
| Saturation Pres | sent? Yes | x | No | Depth (i | inches): | 0-1;>17 | - | Yes X No |
| (includes capillar | y fringe) | | | | - | | | |
| Describe Reco | rded Data (stream ga | auge, mon | itoring well, aerial ph | notos, previo | us inspec | tions), if available: | | |
| | | | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | | Ν ΠΑΤΑ ΕΩ | RM - Weste | rn Mountains, Vall | levs and Coa | PHS # st Region | 7296 |
|--|-----------------|-----------------|-------------|--------------------|----------------------------|--|-------------------------------|--------------------------------|---------------|
| Project/Site: | Sherwood I | | | City/County: | | ood/Washington | Sampling Date: | - | 6/2021 |
| Applicant/Owner: | | erwood, Ll | | ony/oounty. | | State: | OR | Sampling Point: | |
| Investigator(s): | <u>oma on</u> | CM | | Section To | wnship, Range: | | D, Township 2So | | |
| Landform (hillslope | e terrace etc.) | | Slope | - | 17 0 | icave, convex, none): | None | Slope (%): | |
| Subregion (LRR): | e, lendee, elo) | LRR A | 01000 | Lat: | 45.365 | - | -122.8319 | Datum: | |
| | | | Hubor | y silt loam | 40.000 | | | None | 10304 |
| Soil Map Unit Nam Are climatic/hydrol | | n the site turi | | | Yes | No | ssification: X (if no, exp | blain in Remarks) | |
| , | 0 | | | significantly dist | | | · · · · | | |
| Are vegetation | Soil | or Hydr | | _ | | Are "Normal Circumstanc | • • • • | I | |
| Are vegetation | Soil | or Hydr | ology | _ naturally proble | matic? If needed, | explain any answers in Rei | marks.) | | |
| SUMMARY O | F FINDINGS | – Attach | site map | showing sar | npling point | locations, transects | , important fea | tures, etc. | |
| Hydrophytic Veget | ation Present? | Yes | No | х | | | | | |
| Hydric Soil Presen | ıt? | Yes | No | х | Is Sampled Are a Wetlan | ····· | | No X | |
| Wetland Hydrology | y Present? | Yes | No | X | | - | | | |
| Remarks: P | recipitation is | s below no | rmal. which | is now comm | Ion. As such. v | we make sure to evalu | ate a drv-season | water table in | areas of |
| | | | | | | are present. The site is | | | |
| | - | - | - | | | l storm facilities. The g | | - | upland slopes |
| VEGETATION | | - | | | e continual she | eet flow from pervious | upper slopes as | betore. | |
| VEGETATION | - 036 30161 | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| | | _ | % cover | Species? | Status | | | | |
| Tree Stratum (p | | 30) | | | | Number of Dominant Spec | cies | | |
| 1 Populus ba | lsamifera | | 20 | Χ | FAC | That are OBL, FACW, or I | FAC: | 3 | (A) |
| 2 | | | | | | | | | |
| 3 | | | | | | Total Number of Dominan | | • | |
| 4 | | | | - Tatal Osuar | | Species Across All Strata: | | 8 | (B) |
| | | - | 20 | = Total Cover | | | | | |
| Sapling/Shrub Stra | atum (plot size | e: <u>30</u> |) | | | Percent of Dominant Spec | bies | | |
| 1 Cytisus sco | • | | 5 | <u> </u> | (UPL) | That are OBL, FACW, or | FAC: | 38% | (A/B) |
| 2 Rubus armo | eniacus | | 5 | <u> </u> | FAC | Prevalence Index Wo | when he a sta | | |
| 3 | | | | | | Total % Cover of | | NC: | |
| 5 | | | | | | OBL Species | Multiply b x 1 = | | |
| · | | | 10 | = Total Cover | | FACW species | x 2 = | | |
| | | - | - | | | FAC Species | x 3 = | | |
| <u>Herb Stratum</u> (p | olot size: | 10) | | | | FACU Species | x 4 = | 0 | |
| 1 Hypochaeri | is radicata | | 5 | | FACU | UPL Species | x 5 = | 0 | |
| 2 Daucus car | | | 10 | <u> </u> | FACU | Column Totals | 0 (A) | 0 | (B) |
| 3 Holcus lana | | | 20 | <u> </u> | FAC | | | #DN//01 | |
| 4 Lactuca ser | | | <u> </u> | x | FACU FACU | Prevalence Index =E | 3/A = | #DIV/0! | |
| 5 Hypericum 6 Anthoxanth | um odoratum | | 20 | <u> </u> | FACU | Hydrophytic Vegetati | on Indicators | | |
| 7 Portulaca o | | <u> </u> | 5 | | FAC | | 1- Rapid Test for Hyd | rophytic Vegetatio | n |
| 8 Leucanthen | | | 10 | x | FACU | | 2- Dominance Test is | | |
| | J | | 85 | = Total Cover | | | 3-Prevalence Index is | | |
| | | - | | | | | 4-Morphological Ada | otations ¹ (provide | supporting |
| Woody Vine Stratu | um (plot size: | |) | | | | data in Remarks or o | • . | t) |
| 1 | | | | | | | 5- Wetland Non-Vaso | | |
| 2 | | | | | | L | Problematic Hydroph | , , , | . , |
| | | - | 0 | = Total Cover | | ¹ Indicators of hydric soil and disturbed or problematic. | na wetland hydrology | must pe present, | uniess |
| | | | | | | Hydrophytic | | | |
| | Llark Ctratum | 15 | | | | Vegetation | Yes | No | Х |
| % Bare Ground in | Herb Stratum | | | | | Present? | | | |

| Sandy Mucky Mineral (S1) Depreted Dark Surface (F7) hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Restrictive Layer (if present): Type: No X Depth (inches): Hydric Soil Present? Yes No X Remarks: The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) | Depth Matrix Redox Features Tope Loar Texture Remarks 0-6 10YR 3/4 70 10YR 4/2 10 D M Loarny Sand Coarse; mixed matrix 6-14 10YR 3/4 70 10YR 4/2 10 D M Loarny Sand Mixed matrix 6-14 10YR 3/3 20 | SOIL | | | PHS # | 7296 | 6 | | | Sampling Point: 13 |
|---|--|---------------|-----------------------|--------------|---------------------|-----------------|------------------|--------------------|---------------------|---|
| Induce Code (most) % Code Texture Remarks 0-6 10YR 314 100 Loarny Loarny Coarne; mixed matrix 6-14 10YR 313 20 D M Loarny Sand Mixed matrix 6-14 10YR 313 20 D Mixed matrix Mixed matrix 6-14 10YR 313 20 D Mixed matrix Mixed matrix 6-14 10YR 313 20 D Mixed matrix Mixed matrix 6-14 10YR 313 20 D Mixed matrix Mixed matrix 1 Display Loarny Mixed Mi | Color (most) % Type Loar Remarks 0-6 10YR 3/4 100 10YR 4/2 10 D M Loarny Sand Coarse; mixed matrix 6-14 10YR 3/3 20 Image: constraints Loarny Sand Coarse; mixed matrix 6-14 10YR 3/3 20 Image: constraints Loarny Sand Coarse; mixed matrix ge: C-Concentration, D-Detextion, RM-Reduced Matrix, CS+Onwead re Coater Sand Grains * Loarny Sand Image: constraints * Loarny Sand Mixed matrix ge: C-Concentration, D-Detextion, RM-Reduced Matrix, CS+Onwead re Coater Sand Grains * Loarny Mixed Waters (16) Indicators for Problematic Hydric Soils ² : Red Parent Matrix (17) Heidess (4.1) Sandy Adverts (18) Loarny Mixed Waters (16) 2 or Mixed (10) 2 or Mixed (17) Heidess (4.1) Loarny Reduc (16) Image: Constraints (17) Patrixes Matrixe (17) Patrixes Matrixe (17) Heidess (4.1) Loarny Mixed Waters (16) Image: Constraints (17) Patrixes Matrixe (17) Heidess (4.1) Loarny Sandy Globy Matrix (17) Patrixes Matrixe (18) Patrixes Matrixe (18) Patrixes Matrixe (18) | | | the depth i | needed to docun | | | nfirm the absen | ce of indicators.) | |
| 0-6 10YR 34 100 Learny Samd Coarre; mixed matrix 6-14 10YR 33 20 0 M Learny Sand Mixed matrix 6-14 10YR 33 20 0 Mixed matrix Mixed matrix 6-14 10YR 33 20 0 Mixed matrix Mixed matrix 6-14 10YR 33 20 0 Mixed matrix Mixed matrix 9 0 0 0 0 0 Mixed matrix 9 0 0 0 0 0 0 0 17ge: C=Consertence: 0 </th <th>0-5 19/R 24 100 </th> <th>•</th> <th>-</th> <th>%</th> <th>Color (moist)</th> <th></th> <th>1</th> <th>Loc²</th> <th>Texture</th> <th>Remarks</th> | 0-5 19/R 24 100 | • | - | % | Color (moist) | | 1 | Loc ² | Texture | Remarks |
| 6-14 19YR 3/4 70 19YR 4/2 16 D M Learny Sand Coarse; mixed matrix 6-14 19YR 3/3 20 | 8-14 10YR 3/4 70 10YR 4/2 10 D M Loamy Sand Coarse; mixed matrix 8-14 10YR 3/3 20 | . , | | | | | ,, | | 1 | |
| 6-14 19YR 2/3 20 | 6-14 10YR 3/3 20 Learny Sand Mixed matrix 9e. C-Concentration. D=Depeters. RM-Reduced Matrix CS=Cover of Coated Sand Grains. *Locator: PL-Pore Lining, M-Matrix. 4rdic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Hiddication (M) Early Read (SS) Red Parent Matrix (P2) Bick Hate (A) Eurory Matrix (RS) Red Parent Matrix (P2) Duploted Bolow Dark Surface (A11) Dopleted Matrix (P2) Other (explain in Remarks) Duploted Solw Dark Surface (A11) Dopleted Dark Surface (F7) *Indicators of hydrophydic septiation and watland hydrogy much biother septiation and watland hydrogy much biother septiation and watland hydrogy much biother septiation and watland hydrology indicators: ppth (inches): Problematic Hydrogy Matrix (P1) No X Strictive Layer (if present): Problematic Hydrology much biother septiation and watland hydrology indicators: No X Pittory of the series in mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of gh chroma matrix. Problematic Hydrology Matrix (B1) Dry-Secondary Indicators (C2) Problematic Hydrology Matrix (B1) Hydrology Indicators: Sto | | | | 10YR 4/2 | | D | м | | Coarse: mixed matrix |
| "Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coalled Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histosci (A1) Sandy Rodox (S5) | ype: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. *:Location: PL-Pore Lining, M-Matrix. ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls?: + Hatoss (A1) | - | | | | | _ | | | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Loamy Kloped Matrix (S6) Red Prant Material (F7) Black Histic (A2) Loamy Kloped Matrix (F2) Other (explain in Remarks) Depleted Bdav Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." Type: | chric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histock (A1) Samdy Redxx (S5) 2 cm Muck (A10) Histock (A1) Samdy Redxx (S5) Red Parent Material (TF2) Histock (A1) Loamy Mucky Mineral (F1) (except MLRA 1) Vary Shallow Dark Surface (TF12) Hydrogen Suffied (A4) Loamy Gleged Matrix (F2) Other (explain in Remarks) Depieted Below Dark Surface (A11) Depieted Matrix (F3) "Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Samdy Mucky Mineral (S1) Depieted Dark Surface (F7) "Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. periode matrix: en entrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of gh chroma matrices. YDROLOGY Ettant Hydrolog indicators (2 or more required). Surface Water (A1) Water stained Leaves (B9) (Except MLRA (MLRA 1, 2, 4, and 45) High Water Table (A2) Sail Caru (B11) Sufface Water (A1) Aquatio invertebrate (B13) Sufface Water (A1) Aquatio invertebrates along Living Roots (C3) Sufface Water (B1) Aquatio invertebrates along Living Roots (C3) Sufface | | | | | | | | | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Loamy Kloped Matrix (S6) Red Prant Material (F7) Black Histic (A2) Loamy Kloped Matrix (F2) Other (explain in Remarks) Depleted Bdav Dark Surface (A11) Depleted Matrix (F3) Other (explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." Type: | chric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histock (A1) Samdy Redxx (S5) 2 cm Muck (A10) Histock (A1) Samdy Redxx (S5) Red Parent Material (TF2) Histock (A1) Loamy Mucky Mineral (F1) (except MLRA 1) Vary Shallow Dark Surface (TF12) Hydrogen Suffied (A4) Loamy Gleged Matrix (F2) Other (explain in Remarks) Depieted Below Dark Surface (A11) Depieted Matrix (F3) "Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Samdy Mucky Mineral (S1) Depieted Dark Surface (F7) "Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. periode matrix: en entrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of gh chroma matrices. YDROLOGY Ettant Hydrolog indicators (2 or more required). Surface Water (A1) Water stained Leaves (B9) (Except MLRA (MLRA 1, 2, 4, and 45) High Water Table (A2) Sail Caru (B11) Sufface Water (A1) Aquatio invertebrate (B13) Sufface Water (A1) Aquatio invertebrates along Living Roots (C3) Sufface Water (B1) Aquatio invertebrates along Living Roots (C3) Sufface | | | | | | | · | | |
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| Histic Epipedon (A2) Shipped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mukky Minerial (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mukky Minerial (F2) Other (explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Prodex Dark Surface (FC) Sandy Mucky Mineral (S1) Depleted Dark Surface (FC) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Sandy Gloyed Matrix (S4) Restrictive Layer (If present): Type: No X Type: Prodex Dark Surface (FE) No X Prints: Hydrology Indicators of hydrophytic vegetation and wetland hydrology indicators (FB) No X Wetland Hydrology Indicators: No X Restrictive Layer (If present)? No X Wetland Hydrology Indicators: No X Restrictive Layer (A1) Depleted Lawes (B9) Secondary Indicators (2 or more required traves (B9) (Except MLRA Water stained Lawes (B9) Mater Staine Lawes (B9) Mater Staine Lawes (B9) Depleted Matrix (F3) Deplete | Histic Epipedin (A2) Stripped Matrix (SB) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shaloo Dark Surface (T12) Depleted Baloo Dark Surface (A11) Depleted Matrix (F2) Other (coplain in Remarks) Depleted Dark Surface (A12) Red x Dark Surface (F1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F1) "indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." estrictive Layer (If present): Red x Depresents (F8) No _ X estrictive Layer (If present): Hydric Soil Present? Yes No _ X marke: market: No _ X telland Hydrology Indicators: Surface Matrix (S1) Secondary Indicators (2 or more required) Surface Water (A1) Yes and Ad9) Secondary Indicators (2 or more required) Surface Water (A1) Yes and Ad9) Outload Cars: immark: Surface S(B1) Aquatic Intertechantes (B3) Outload Cars: (B1) Surface Water (A2) Sail Crust (B1) Drainage Patterns (B10) Depleted Matrix (C1) Water Marks (B1) Aquatic Intertechantes (B13) Dry-Season Water Table (C2) Genomprine Postand (C2) Su | Hydric Soil | Indicators: (Appl | icable to | all LRRs, unle | ess otherwise | e noted. |) | Indic | ators for Problematic Hydric Soils ³ : |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sufface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (F2) Tink Dark Surface (A12) Redox Dark Surface (F7) ************************************ | Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF 12) Hydrogen Suffac (A4) Depleted Matrix (F2) Other (explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (F3) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. satrictive Layer (if present): met Hydric Soil Present? Yes No X marks: meatrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of gh chroma matrices. Secondary Indicators (2 or more required) YDROLOGY Saturation (A3) Sati Chust (611) Oralise of hydrophytic vegetation (A4) Saturation (A3) Sati Chust (611) Drainage Patterns (610) Dryleasen Water fable (C2) Saturation (A3) Sati Chust (611) Drainage Patterns (610) Dryleasen Water fable (C2) Saturation (A3) Sati Chust (611) Drainage Patterns (610) Dryleasen Water fable (C2) Saturation (A3) Sati Chust (611) Drainage Patterns (610) Dryleasen Water fable (C2) Saturation Viable on Aarial Im | | Histosol (A1) | | | Sa | andy Redo | ox (S5) | | 2 cm Muck (A10) |
| Hydrogen Sulfde (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depleted Bickword Dark Surface (A11) Depleted Matrix (F3) Trick Dark Surface (A12) Redox Dark Surface (F6) Sandy Klucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." Sandy Gleyed Matrix (S4) Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." Dipteter Dark Surface (A11) Redox Depressions (F8) No _ X Depleted Dark Surface (A11) Hydric Soil Present? Yes No X Memarks: The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. HYDROLOGY Secondary Indicators: Primary Indicators (Infinitrum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Mictaors (B1) Drainage Patterns (B10) Saturation (A3) Sait Crust (B11) Drainage Patterns (B10) Setific Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (A2) Dift Deposits (B2) Hydrogen Suffic Odor (C1) Saturation Visible on Aerial Imager; | Hydrogen Sulfdie (A4) Loamy Gleyed Matrix (F2) Other (explain in Remarks) Depleted Bellow Dark Surface (A11) Depleted Matrix (F2) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or sandy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic." sstrictive Layer (If present): | | Histic Epipedon (A2) | | | St | ripped Ma | trix (S6) | | Red Parent Material (TF2) |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) Trick Dark Surface (A12) Redex Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redex Depressions (F8) Prime Matrix (S4) Restrictive Layer (if present): rproblematic. Type: Problematic. Papel (inches): Hydric Soil Present? Yes No X Restrictive Layer (if present): No X Type: Present: No X Permarks: The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. HYDROLOGY Secondary Indicators: Primary indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Saturation (A3) Saturation (B9) (Except MLRA Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Saturation (A3) Saturation (B1) Drainage Patterns (B10) Saturation (A3) Saturation (C1) Saturation Visible on Aerial Imager Diff Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imager Dinundebion Visible on Aerial Imager (B7) | Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F5) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) *Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. strictive Layer (If present): | | Black Histic (A3) | | | Lo | amy Muc | ky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12 |
| Thick Dark Surface (A12) Redox Dark Surface (F6) ^a Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemate. Restrictive Layer (If present): Redox Depressions (F8) Problemate. Depheted Dark Surface (F7) No Restrictive Layer (If present): No Type: | Thick Dark Surface (A12) Redox Dark Surface (F6) **Indicators of hydrophytic vegetation and wetland hydrophytic vegetation preserve and hydrophytic vegetatin hydrophytic vegetation for the preservege | | Hydrogen Sulfide (A | 4) | | Lo | amy Gley | ed Matrix (F2) | | Other (explain in Remarks) |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology musb be present, unless disturbed or problemate. Restrictive Layer (if present): | | | Depleted Below Dark | s Surface (A | A11) | De | epleted Ma | atrix (F3) | | |
| Sardy Mucky Munchai (S1) | | | Thick Dark Surface (| A12) | | Re | edox Dark | Surface (F6) | | |
| Sandy Gleyed Matrix (S4) | Sandy Gleyed Matrix (S4) | | Sandy Mucky Minera | | De | epleted Da | ark Surface (F7) | | | |
| Type: | pp:: | | | | | Re | edox Depr | essions (F8) | | |
| Properth (inches): Hydric Soil Present? Yes No X Remarks: The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. No X HYDROLOGY | Hydric Soil Present? Yes No X marks: marks:< | Restrictive | Layer (if present) | : | | | | | | |
| Remarks: The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required (MLRA 1, 2, 4A, and 4B) Surface Water (A1) Water stained Leaves (B9) (Except MLRA (MLRA 1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Bescher Marks (B1) Aquatic Invertebrates (B13) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Saturation Visible on Aerial Imager Algal Mat or Crust (B4) Presence of Reduced from (C4) Inon Deposits (B5) Recent tron Reduction in Plowed Solis (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Saturation Present? No X No X Depth (inches): Saturation Present? No X Water Table Present? No X Depth (inch | imarks: | Гуре: | | | | | | | | |
| The matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of high chroma matrices. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Stafface Mater Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Water Marks (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Solis (C6) Fac-Neutral Test (D5) Surface Soli Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): | te matrix in this area is mixed, but generally high in chroma. There are no iron concentrations here, but rather a homogenous mixture of gh chroma matrices. YDROLOGY ettand Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) High Water Table (A2) 1, 2, 4A, and 4B) Water stained Leaves (B9) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Suffac Odor (C1) Saturation Visible on Aerial Imagery (0 Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Solis (C6) Fac-Neutral Test (D5) Surface Soli Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Depth (inches): >14 Yes No X </td <td>Depth (inche</td> <td>s):</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Hydric Soil Pres</td> <td>sent? Yes <u>No X</u></td> | Depth (inche | s): | | | | | | Hydric Soil Pres | sent? Yes <u>No X</u> |
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| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | cludes capillary fringe) | Vater Table F | Present? Yes | | No X | Depth (in | ches): | >14 | Wetland Hyd | Irology Present? |
| | | | | | No X | Depth (in | ches): | >14 | | Yes NoX |
| emarks: | arks: | Describe Reco | orded Data (stream g | auge, moni | toring well, aerial | photos, previou | s inspecti | ons), if available | | |
| emarks: | narks: | | | | | | | | | |
| | | emarks: | | | | | | | | |

| | | | | | RM - Weste | rn Mountains, Vall | evs and Coa | PHS # | 7296 |
|---|---|--------------------------------------|--|---|----------------------------------|---|-------------------------------------|----------------------------------|------------------|
| Project/Site: | Sherwood I | | | City/County: | | ood/Washington | Sampling Date: | - | /2021 |
| Applicant/Owner: | OWRA Sh | | | ong, ooung. | | State: | OR | Sampling Point: | 14 |
| Investigator(s): | | CM | | Section To | wnship, Range: | |), Township 2So | | |
| Landform (hillslop | e terrace etc.) | • | Depressio | - | | ncave, convex, none): | Concave | Slope (%): | 2 |
| Subregion (LRR): | | LRR A | • | Lat: | 45.36 | - | -122.8317 | Datum: | WGS84 |
| Soil Map Unit Nan | | ENICA | | silt loam | +0.00 | | ssification: | None | 110004 |
| Are climatic/hydro | | n the site tu | | | Yes | | X (if no, exp | | |
| | • | | | | | | | | |
| Are vegetation | | _ | | _significantly dist | | Are "Normal Circumstanc | , | I | |
| Are vegetation | Soil | | Irology | | matic? If needed | , explain any answers in Rei | narks.) | | |
| SUMMARY C | OF FINDINGS | - Attacl | h site map | showing sar | npling point | locations, transects | , important feat | tures, etc. | |
| Hydrophytic Vege | tation Present? | Yes | X No | | | | | | |
| Hydric Soil Preser | nt? | Yes | No | X | Is Sampled An a Wetlar | | | No X | |
| Wetland Hydrolog | y Present? | Yes | No | x | | | | | |
| | | s below no | ormal, which | is now comm | ion. As such. | we make sure to evalu | ate a dry-season | water table in a | areas of |
| lower topogra that hydrology | phy, or in area / is slowly beir t conducive to | s where h ng diverte retaining | ydrophytic v d through st water, nor d | vegetation and ormwater infra lo they receive | I hydric soils astructure and | are present. The site is d storm facilities. The g eet flow from pervious | surrounded by r jeomorphic posit | iew developme ion of gradual | nt. It is our BP |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| | | 20 | % cover | Species? | Status | | | | |
| Tree Stratum (| · | 30) | 20 | v | FAC | Number of Dominant Spec | | - | (A) |
| 1 Populus ba | aisamitera | | 30 | <u> </u> | FAC | That are OBL, FACW, or I | -AC: | 5 | (A) |
| 3 | | | | | | Total Number of Dominan | ł | | |
| 4 | | | | | | Species Across All Strata: | | 8 | (B) |
| · | | | 30 | = Total Cover | | | | • | |
| Sonling/Shrub Str | rotum (III) | 20 | <u></u> | | | | | | |
| Sapling/Shrub Str. 1 Populus ba | | e: 30 | _) 10 | x | FAC | Percent of Dominant Spec | | 63% | (A/B) |
| 2 Cytisus sc | | | 5 | <u> </u> | (UPL) | That are OBL, FACW, or | FAC. | 03 /8 | (A/D) |
| 3 Rubus arm | • | | 5 | <u> </u> | FAC | Prevalence Index Wo | rksheet: | | |
| 4 Salix sp | | | 2 | | (UPL) | Total % Cover of | Multiply b | y: | |
| 5 | | | | | <u> </u> | OBL Species | x 1 = | | |
| | | | 22 | = Total Cover | | FACW species | x 2 = | 0 | |
| | | | | | | FAC Species | x 3 = | 0 | |
| | plot size: | 10) | | | | FACU Species | x 4 = | | |
| 1 Agrostis ca | • | | 60 | <u> </u> | FAC | UPL Species | x 5 = | | - |
| 2 Holcus land 3 Leontodon | | | 20 | <u> </u> | FAC | Column Totals | 0 (A) | 0 | (B) |
| 4 Hypochaer | | | 20 | <u> </u> | FACU FACU | Prevalence Index =E | 2/4 - | #DIV/0! | |
| | hum odoratum | | 10 | | FACU | | | | |
| - | perforatum | | 10 | | FACU | Hydrophytic Vegetati | on Indicators: | | |
| 7 Lotus corn | • | | 5 | | FAC | | - Rapid Test for Hyd | rophytic Vegetatio | n |
| 8 | | | | | | | 2- Dominance Test is | | |
| | | | 145 | = Total Cover | | ; | 3-Prevalence Index is | $s \le 3.0^{1}$ | |
| | | | | | | | I-Morphological Adap | otations ¹ (provide s | upporting |
| Woody Vine Strate | um (plot size: | |) | | | | lata in Remarks or o | · . |) |
| 1 | | | | | | | 5- Wetland Non-Vasc | | |
| 2 | | | | | | | Problematic Hydrophy | | |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil an disturbed or problematic. | nd wetland hydrology | must be present, | unless |
| | | | | | | Hydrophytic | | | |
| | | | | | | | | | |
| % Bare Ground in | n Herb Stratum | (|) | | | Vegetation Present? | Yes <u>X</u> | No | |

| SOIL | | | PHS # | 729 | 96 | _ | | Sampling Point: 14 |
|---------------------------------------|-------------------------------|------------|-------------------------|---------------|-------------------------------|----------------------------|---------------------|---|
| Profile Descri Depth | ption: (Describe to Matrix | the depth | needed to docume | | ator or co Features | onfirm the absen | ce of indicators.) | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 3/3 | 98 | 10YR 5/6 | 2 | C | M | Loamy Sand | Fine |
| | | | 10YR 5/6 | 5 | | | | |
| 5-10 | 2.5Y 5/3 | 95 | 1018 5/6 | 5 | С | M | Loamy Sand | Medium |
| 10-12 | 10YR 3/3 | 100 | | | | | Sand | |
| 12-18 | 2.5Y 5/2 | 90 | 10YR 4/6 | 10 | С | <u> </u> | Sand | Coarse |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Cond | centration, D=Deplet | ion, RM=R | educed Matrix, CS= | Covered or (| Coated Sa | ind Grains. | | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Appl | icable to | all LRRs, unles | s otherwis | se noted | .) | Indic | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | S | andy Red | lox (S5) | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | s | Stripped M | atrix (S6) | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | L | oamy Mu | cky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | 1) | | | - | yed Matrix (F2) | | Other (explain in Remarks) |
| | Depleted Below Dark | | A 11) | | Depleted N | | | |
| | - | | R11) | | - | | | |
| | Thick Dark Surface (| | | | | k Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Minera | | | | - | ark Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | F | Redox Dep | oressions (F8) | | problematic. |
| Restrictive | Layer (if present) | : | | | | | | |
| Туре: | | | | | | | | |
| Depth (inches | s): | | | | | | Hydric Soil Pres | sent? Yes <u> </u> |
| | oming inundated | with Sco | otch broom and | other upla | ina snru | DS. | | |
| HYDROLO | | | | | | | | |
| Wetland Hy | drology Indicator | rs: | | | | | | |
| Primary India | cators (minimum o | of one rec | juired; check all t | hat apply) | | | | Secondary Indicators (2 or more required) |
| | Surface Water (A1) | | | V | Vater stair | ned Leaves (B9) (I | Except MLRA | Water stained Leaves (B9) |
| | High Water Table (A | 2) | | 1 | , 2, 4A, aı | nd 4B) | | (MLRA1, 2, 4A, and 4B) |
| | Saturation (A3) | | | S | alt Crust | (B11) | | Drainage Patterns (B10) |
| , | Water Marks (B1) | | | A | quatic Inv | vertebrates (B13) | | Dry-Season Water Table (C2) |
| | Sediment Deposits (| B2) | | | lydrogen \$ | Sulfide Odor (C1) | | Saturation Visible on Aerial Imagery (C |
| | Drift Deposits (B3) | | | c | Dxidized R | hizospheres along | g Living Roots (C3) | X Geomorphic Position (D2) |
| | Algal Mat or Crust (B | 4) | | | | of Reduced Iron (C | | Shallow Aquitard (D3) |
| | Iron Deposits (B5) | | | F | Recent Iror | n Reduction in Plo | wed Soils (C6) | Fac-Neutral Test (D5) |
| | Surface Soil Cracks | (B6) | | s | stunted or | Stressed Plants (I | D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| | Inundation Visible on | | agery (B7) | c | Other (Exp | lain in Remarks) | | Frost-Heave Hummocks (D7) |
| | Sparsely Vegetated | Concave S | urface (B8) | | | , | | |
| Field Obser | vations | | | | | | 1 | |
| | | | | D (1 (| | | | |
| Surface Water | | | No <u>X</u> | Depth (i | - | | | |
| Water Table P | | | No <u>X</u> | Depth (i | | >18 | wetland Hyd | Irology Present? |
| Saturation Pres (includes capillar | | | No <u>X</u> | Depth (i | nches): | >18 | | Yes NoX |
| | | | | | | | | |
| Describe Reco | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | : | |
| Describe Reco | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | : | |
| Describe Reco | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | : | |
| Describe Reco | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | | |
| | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | | |
| | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, previo | us inspec | tions), if available: | : | |

| | FTERMINATIO | | RM - Weste | rn Mountains, Vall | evs and Coa | PHS # st Region | 7296 |
|------------------|--|---|--|--|--|--|---|
| | | | | | - | - | /2021 |
| | | ony, county. | | · · · · | | | 15 |
| | , | Section To | wnship Range | | | | |
| | | | | | | - | 3 |
| | | | | - | | | WGS84 |
| | | | +0.00 | 0 _ | | | 110004 |
| | | | Voo | | | | |
| 0 | | | | | · · · · | | |
| | | | | | , | <u> </u> | |
| Soll | or Hydrology | naturally proble | matic? If needed | , explain any answers in Rer | marks.) | | |
| F FINDINGS - | Attach site ma | p showing sar | npling point | locations, transects | , important feat | tures, etc. | |
| | | | | | | | |
| nt? | Yes N | Vo X | | | | No X | |
| v Present? | Yes N | No X | u monu | - | | | |
| | elow normal whi | ch is now comm | on As such | we make sure to evalua | ate a dry-season | water table in a | areas of |
| | | | | | - | | |
| | - | | | - | | - | upland slopes |
| | - | | continual sh | eet flow from pervious | upper slopes as | before. | |
| - Ose scientin | 1 | | Indicator | Dominance Test wor | ksheet: | | |
| | % cover | Species? | Status | | | | |
| olot size: 30 |) | | | Number of Dominant Spec | cies | | |
| lsamifera | 5 | <u> </u> | FAC | That are OBL, FACW, or F | AC: | 6 | (A) |
| | | | | | | | |
| | | | | | | _ | |
| | | | | Species Across All Strata: | | 7 | (B) |
| | 5 | = I otal Cover | | | | | |
| atum (plot size: | 30) | | | Percent of Dominant Spec | bies | | |
| monogyna | 5 | <u> </u> | FAC | That are OBL, FACW, or | FAC: | 86% | (A/B) |
| | | | | Duran la ser la slava Ma | | | |
| asitera | 5 | <u> </u> | (UPL) | | | | |
| | | | | | | | |
| | 15 | = Total Cover | | · · - | | | |
| | 10 | | | FAC Species | | | |
| olot size: 10 |) | | | FACU Species | x 4 = | 0 | |
| pillaris | 50 | X | FAC | UPL Species | x 5 = | 0 | |
| s pratensis | 20 | <u> </u> | FAC | Column Totals | 0 (A) | 0 | (B) |
| atus | 20 | <u> </u> | FAC | | | | |
| ullonum | 10 | | FAC | Prevalence Index =E | 3/A = | #DIV/0! | |
| • | | | | | | | |
| | | | | | | | |
| | | <u> </u> | | | | | า |
| ierata | | | FACU | | | | |
| | 130 | = Total Cover | | | | | upporting |
| um (plot size: |) | | | | | | |
| | | | | | | | |
| | | | | | Problematic Hydrophy | ytic Vegetation ¹ (E | xplain) |
| | 0 | = Total Cover | | | | | |
| | | - | | disturbed or problematic. | | | |
| | | | | Hydrophytic | | | |
| Herb Stratum | 0 | | | Vegetation | Yes X | No | |
| | Sherwood Inc OWRA Sher a, terrace, etc.:) a, terrace, etc.:) a, terrace, etc.:) b, terrace, etc.:) F FINDINGS – ation Present? F FINDINGS – ation Present? F FINDINGS – ation Present? Trecipitation is b b, or in areas of is slowly being conducive to re I - Use scientif bothy, or in areas of is slowly being conducive to re I - Use scientif bothy, or in areas of is slowly being conducive to re I - Use scientif bothy, or in areas of is slowly being conducive to re I - Use scientif bothy, or in areas of atum (plot size: | Sherwood Industrial Park OWRA Sherwood, LLC CM LRR A ne: Alo ogic conditions on the site typical for this Soil or Hydrology Soil or Hydrology Soil or Hydrology F FINDINGS – Attach site majation Present? Net Yes X y Present? Yes y Opt size: 30 y Opt size: 30 het size: 10 y for this 5 atum (plot size: 30 y for this 5 atum 10 y for this 5 ation 10 y for this 5 atum 10 y for this 5 ation< | Sherwood Industrial Park City/County: OWRA Sherwood, LLC CM Section, To a, terrace, etc.:) Slope | Sherwood Industrial Park City/County: Sherwood OWRA Sherwood, LLC CM Section, Township, Range: a, terrace, etc.:) Slope Local relief (column) a, terrace, etc.:) Slope Local relief (column) ogic conditions on the site typical for this time of year? Yes Soil or Hydrology X significantly disturbed? Soil or Hydrology naturally problematic? If needed F FINDINGS - Attach site map showing sampling point attach site map showing sampling point ation Present? Yes No X recipitation is below normal, which is now common. As such, by, or in areas where hydrophytic vegetation and hydric soils is is slowly being diverted through stormwater infrastructure and conducive to retaining water, nor do they receive continual shots is size: Job size: 30 Job Job size: 30 Job Joaningrad 5 X FAC eniacus 5 X FAC absolute Job Job Job Job size: 30 Job Job Job size: 30 Job FAC Job size: 15 | Sherwood Industrial Park City/County: Sherwood/Washington OWRA Sherwood, LLC State: CM Section, Township, Range: Section 280 g, terrace, etc.:) Slope Local relief (concave, convex, none); LRR A Lat: 45.3655 Long; Soil or Hydrology X significantly disturbed? Are "Normal Circumstand Soil or Hydrology X significantly disturbed? Are "Normal Circumstand Soil or Hydrology naturally problematic? If needed, explain any answers in Rei FFINDINGS - Attach site map showing sampling point locations, transects ation Present? Yes No X recipitation is below normal, which is now common. As such, we make sure to evalue hyly, or in areas where hydrophytic vegetation and hydric soils are present. The site is is slowly being diverted through stormwater infrastructure and storm facilities. The g conducive to retaining water, nor do they receive continual sheet flow from pervious or total new store of pervisite section; Dominant Spectra and storm and they first sucture and storm facilities. The g conducive to retaining water, nor do they receive continual sheet flow from pervious and species Across All Strata: is samifera 5 X FAC state: 30 Total Number of Dominant Spectra and storm store they receive conti | Sherwood Industrial Park City/County: Sherwood/Washington Sampling Date: OWRA Sherwood, LLC Stati: OR CM Section, Township, Range: Section 280, Township 250, Township | OWRA Sherwood, LLC Section, Tormship, Range: Section 290, Township 25outh, Range 1Wite, Range 1Wite, Range 1Wite, Range 1Wite, Range 1Wite, Leat relief (concave, convex, none); None Slope (Y) LRR A Lat 45.3655 Long: 122.821 Doatmain re: Aloha silt loam No X (In c. splain in Remarks); None Slope (Y) Sail or Hydrology maturally problematic? I meeded, explain any answers in Remarks.) Y F FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. atten freemark Yes No X recipitation is below normal, which is now common. As such, we make sure to evaluate a dry-season water table in a slow birding diverde through stormwater infrastructure and storm facilities. No X recipitation is below normal, which is now common. As such, we make sure to evaluate a dry-season water table in a slow birding diverde through stormwater infrastructure and storm facilities. No X is slowly birding diverde through stormwater infrastructure and storm facilities. No X Parcent of Dominant Species is law birding diverde through stormwater infrastructure and storm facilities. Total Norme of Dominant Species At a 0 underable Section 7 |

| SOIL | | | PHS # | 729 | 96 | | | Sampling Point: 15 |
|-------------------------|-------------------------------|------------|------------------------|---------------|-------------------------------|---------------------|---------------------|---|
| Profile Descri Depth | ption: (Describe to Matrix | the depth | needed to docume | | ator or co Features | nfirm the absen | ce of indicators.) | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 3/3 | 100 | | 70 | 1300 | | Silt Loam | Tremarks |
| 6-16 | 10YR 3/6 | 96 | 10YR 5/1 | 2 | D | M | Loamy Sand | Fine |
| 6-16 | 1011 3/0 | | 7.5YR 4/6 | 2 | C | M | | Fine |
| 0-10 | | | 7.51K 4/0 | <u> </u> | <u> </u> | | Loamy Sand | Fille |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | · | | |
| | | | | | | | | |
| | | | | | | | | |
| | centration, D=Depleti | | | | | | la d'a | ² Location: PL=Pore Lining, M=Matrix. |
| • | Indicators: (Appl | icable to | all LRRs, unles | | | | Indic | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | | Sandy Redo | . , | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | Stripped Ma | | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | - | ky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | 4) | | L | oamy Gley | ed Matrix (F2) | | Other (explain in Remarks) |
| | Depleted Below Dark | Surface (| 411) | [| Depleted M | atrix (F3) | | |
| | Thick Dark Surface (| A12) | | F | Redox Dark | Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Minera | l (S1) | | | Depleted Da | ark Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | F | Redox Dep | ressions (F8) | | problematic. |
| Restrictive | Layer (if present) | : | | | | | | |
| Type: | | | | | | | | |
| Depth (inches | s): | | | | - | | Hydric Soil Pres | sent? Yes No X |
| Remarks: | | | | | • | | | |
| HYDROLO Wetland Hy | GY drology Indicator | ′s: | | | | | | |
| Primary Indi | cators (minimum o | of one rea | uired: check all tl | hat apply) | | | | Secondary Indicators (2 or more required) |
| - | Surface Water (A1) | | | | Vater stain | ed Leaves (B9) (| Except MLRA | Water stained Leaves (B9) |
| | High Water Table (A | 2) | | | l, 2, 4A, an | | • | (MLRA1, 2, 4A, and 4B) |
| | Saturation (A3) | , | | S | Salt Crust (I | B11) | | Drainage Patterns (B10) |
| | Water Marks (B1) | | | | | ertebrates (B13) | | Dry-Season Water Table (C2) |
| | Sediment Deposits (I | B2) | | | - Hydrogen S | Sulfide Odor (C1) | | Saturation Visible on Aerial Imagery (C9 |
| | Drift Deposits (B3) | | | (| Dxidized Rł | nizospheres alon | g Living Roots (C3) | Geomorphic Position (D2) |
| | Algal Mat or Crust (B | 4) | | F | Presence of | f Reduced Iron (0 | C4) | Shallow Aquitard (D3) |
| | Iron Deposits (B5) | | | F | Recent Iron | Reduction in Plo | owed Soils (C6) | Fac-Neutral Test (D5) |
| | Surface Soil Cracks | (B6) | | s | Stunted or S | Stressed Plants (| D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| | Inundation Visible on | Aerial Ima | gery (B7) | | Other (Expl | ain in Remarks) | | Frost-Heave Hummocks (D7) |
| | Sparsely Vegetated | Concave S | urface (B8) | | | | | |
| Field Obser | vations: | | | | | | | |
| Surface Water | Present? Yes | | No X | Depth (| inches): | | | |
| Water Table P | resent? Yes | | No X | Depth (| inches): | >16 | Wetland Hyd | rology Present? |
| Saturation Pre | sent? Yes | | No X | Depth (| inches): | >16 | - | Yes No X |
| (includes capilla | ry fringe) | | | | | | | |
| Describe Reco | orded Data (stream g | auge, moni | toring well, aerial pł | notos, previc | ous inspect | ions), if available | : | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | WETLAND | | | | RM - Weste | rn Mountains, Vall | leys, and C | | PHS # _ gion | 7296 |
|-------------------|--------------------|---------------|---------------------|----------------------|---------------------|--|----------------------|--------------------------|-----------------|--------------|
| Project/Site: | Sherwood I | ndustrial | Park | City/County: | Sherwo | od/Washington | Sampling [| Date: | 10/6/2 | 2021 |
| pplicant/Owner: | OWRA Sh | erwood, L | LC | | | State: | OR | Samp | ing Point: | 16 |
| vestigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township | 2South, Ra | unge 1Wes | st |
| andform (hillslop | e, terrace, etc.:) | | Slope | - | Local relief (con | cave, convex, none): | None | S | Slope (%): | 3 |
| ubregion (LRR): | | LRR A | i. | Lat: | 45.365 | 8 Long: | -122.83 [,] | 17 | Datum: | WGS84 |
| oil Map Unit Nar | ne: | | Aloha | silt loam | | NWI Cla | ssification: | | None | |
| e climatic/hydro | logic conditions o | n the site ty | pical for this tim | e of year? | Yes | No | X (if no | o, explain in F | Remarks) | |
| e vegetation | Soil | or Hyd | drology X | significantly dist | urbed? | Are "Normal Circumstanc | es" present? (Y | ′/N) | Y | |
| e vegetation | Soil | or Hyd | drology | naturally probler | matic? If needed, | explain any answers in Rei | marks.) | | | |
| | | _ | | _ | | | | _ | | |
| UMMARY C | OF FINDINGS | | h site map s | showing san | npling point | ocations, transects | , important | features, | etc. | |
| | tation Present? | Yes | X No | | Is Sampled Are | ea within | | | | |
| /dric Soil Preser | nt? | Yes | No | | a Wetlan | | | No | <u>x</u> | |
| etland Hydrolog | y Present? | Yes | No | Χ | | | | | | |
| | • | | | | | ve make sure to evalu | - | | | |
| | | | | | | re present. The site is storm facilities. The g | | | | |
| | - | - | - | | | et flow from pervious | | | - | pranta cropt |
| EGETATIO | N - Use scien | tific nam | nes of plant | s. | | 1 | | | | |
| | | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test wor | ksheet: | | | |
| ee Stratum (| plot size: |) | 70 00001 | 0000031 | Otatus | Number of Dominant Spec | cies | | | |
| | · | | | | | That are OBL, FACW, or I | | 2 | (. | A) |
| | | | | | | | | | ` | |
| | | | | | | Total Number of Dominan | t | | | |
| | | | | | | Species Across All Strata: | | 2 | (| B) |
| | | | 0 | = Total Cover | | | | | | |
| apling/Shrub Str | atum (plot size | e: |) | | | Percent of Dominant Spec | cies | | | |
| | | | | | | That are OBL, FACW, or | FAC: | 100% | (| A/B) |
| | | | | | | | | | | |
| | | | | | | Prevalence Index Wo | | | | |
| 1 | | | | | | Total % Cover of | | ply by: | 0 | |
| | | | 0 | = Total Cover | | OBL Species FACW species | | x 1 = x 2 = | 0 | |
| | | | | | | FAC Species | | x 3 = | 0 | |
| erb Stratum (| plot size: | 10) | | | | FACU Species | | x 4 = | 0 | |
| Dipsacus f | ullonum | | 75 | X | FAC | UPL Species | | x 5 = | 0 | |
| Phalaris ar | undinacea | | 25 | X | FACW | Column Totals | 0 (A) | | 0 (I | B) |
| | | | | | | | | | _ | |
| | | | | | | Prevalence Index =E | 3/A = | #DIV/0 | ! | |
| | | | | | | Hydrophytic Vegetati | on Indicators | | | |
| | | | | | | | 1- Rapid Test fo | | Vegetation | |
| | | | | | | | 2- Dominance T | | . egetation | |
| | | | 100 | = Total Cover | | | 3-Prevalence Ind | | | |
| | | | | | | 2 | 4-Morphological | Adaptations ¹ | (provide su | pporting |
| oody Vine Strat | um (plot size: | |) | | | | data in Remarks | | | |
| | | | | | | I | 5- Wetland Non- | | | |
| | | | | | | | Problematic Hyd | | | |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil an disturbed or problematic. | na wetland hydro | biogy must be | e present, ur | niess |
| | | | | | | Hydrophytic | | | | |
| | | | • | | | Manatatian | Yes | Y | No | |
| Bare Ground in | Herb Stratum | | 0 | | | Vegetation Present? | 165 | <u> </u> | NO_ | |

| SOIL | | | PHS # | 729 | 96 | | | Sampling Point: 16 |
|------------------------|--|------------|-------------------------|---------------|-----------------------------------|----------------------------------|---------------------|--|
| | ption: (Describe to | the depth | needed to docume | | | nfirm the absen | ce of indicators.) | |
| Depth (Inches) | Matrix Color (moist) | % | Color (moist) | Redox % | Features Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 7.5YR 3/2 | 100 | | 70 | 1390 | | Silt Loam | Remarks |
| 4-10 | 7.5YR 3/2 | 60 | 5YR 3/4 | 3 | С | M | Silt Loam | Coarse/mixed matrix |
| 4-10 | 10YR 3/3 | 36 | 5YR 3/4 | <u> </u> | c | M | Silt Loam | Coarse/mixed matrix |
| 10-16 | 7.5YR 3/2 | 98 | 7.5YR 3/4 | 2 | c | M | Loam | Fine |
| 10-10 | 7.5TK 0/2 | | 7.011(0/4 | | • | | | |
| | | | | | | | | |
| | centration, D=Depleti | | | | | | | ² Location: PL=Pore Lining, M=Matrix. |
| - | Indicators: (Appl | icable to | all LRRs, unles | | | | Indica | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | | Sandy Redo | | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | Stripped Ma | . , | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | - | ky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12 |
| | Hydrogen Sulfide (A4 | | | L | oamy Gley | ed Matrix (F2) | | Other (explain in Remarks) |
| [| Depleted Below Dark | Surface (| A11) | C | Depleted Ma | atrix (F3) | | |
| | Thick Dark Surface (| A12) | | | | Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetlan |
| | Sandy Mucky Minera | l (S1) | | | | ark Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | F | Redox Depr | essions (F8) | | problematic. |
| Restrictive L | _ayer (if present) | : | | | | | | |
| Гуре: | | | | | | | | |
| Depth (inches |): | | | | | | Hydric Soil Pres | sent? Yes No X |
| Remarks: | | | | | | | | |
| HYDROLO Wetland Hyd | GY drology Indicator | 'S: | | | | | | |
| Primary Indic | ators (minimum c | of one req | uired; check all t | hat apply) | | | | Secondary Indicators (2 or more required |
| | Surface Water (A1) High Water Table (A: | 2) | | | Vater stain , 2, 4A, an | ed Leaves (B9) (d 4B) | Except MLRA | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| | Saturation (A3) | Z) | | 9 | Salt Crust (B | 311) | | Drainage Patterns (B10) |
| | Water Marks (B1) | | | | | ertebrates (B13) | | Dry-Season Water Table (C2) |
| | Sediment Deposits (I | B2) | | | - | ulfide Odor (C1) | | Saturation Visible on Aerial Image |
| | Drift Deposits (B3) | / | | | | | g Living Roots (C3) | Geomorphic Position (D2) |
| | Algal Mat or Crust (B | 4) | | | | Reduced Iron (0 | | Shallow Aquitard (D3) |
| | ron Deposits (B5) | | | F | Recent Iron | Reduction in Plo | wed Soils (C6) | X Fac-Neutral Test (D5) |
| | Surface Soil Cracks | (B6) | | s | Stunted or S | Stressed Plants (| D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| I | nundation Visible on | Aerial Ima | igery (B7) | c | Other (Expla | ain in Remarks) | | Frost-Heave Hummocks (D7) |
| | Sparsely Vegetated (| | | | | | | |
| Field Observ | vations: | | | | | | | |
| Surface Water | | | No X | Depth (i | nches): | | | |
| Water Table Pi | | | No X | Depth (i | - | >16 | Wetland Hvd | rology Present? |
| Saturation Pres | sent? Yes | _ | No X | Depth (i | - | >16 | | Yes NoX |
| Describe Reco | rded Data (stream ga | auge, mon | itoring well, aerial pł | hotos, previo | us inspecti | ons), if available | : | |
| | | | | | | | | |
| | | | | | | | | |
| emarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | WETLAND | DETER | | N DATA FO | RM - Weste | rn Mountains, Val | leys, and C | PHS # oast Region | |
|----------------------------------|---------------------|-------------|--------------------|--------------------|------------------|---|--------------------------------------|---------------------------------|----------------|
| Project/Site: | Sherwood In | | | City/County: | | ood/Washington | Sampling D | • | 0/6/2021 |
| Applicant/Owner: | OWRA She | rwood, L | LC | | | State: | OR | Sampling Po | int: 17 |
| nvestigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township 2 | South, Range 1 | IWest |
| andform (hillslope | e, terrace, etc.:) | | Slope | - | Local relief (co | ncave, convex, none): | None | Slope (| %): 2 |
| Subregion (LRR): | | LRR A | | Lat: | 45.36 | - 58 Long: | -122.831 | 6 Datu | Im: WGS84 |
| Soil Map Unit Nam | ne: | | Aloha | silt loam | | NWI Cla | ssification: | None | |
| • | logic conditions on | the site tv | pical for this tim | e of vear? | Yes | No | | , explain in Remark | (s) |
| Are vegetation | • | | | significantly dist | urbed? | Are "Normal Circumstanc | | • | , |
| re vegetation | Soil | - | | _ 0 | | , explain any answers in Re | | | |
| | | | | , | | , | | | |
| SUMMARY O | F FINDINGS | - Attach | n site map | showing sar | npling point | locations, transects | , important f | features, etc. | |
| lydrophytic Vegeta | tation Present? | Yes | X No | | Is Sampled Ar | oo within | | | |
| lydric Soil Presen | nt? | Yes | X No | | a Wetlar | | Х | No | |
| Vetland Hydrology | y Present? | Yes | X No | | | | | | |
| emarks: P | Precipitation is | below no | ormal, which | is now comm | ion. As such, | we make sure to evalu | ate a dry-seas | on water table | in areas of |
| hat hydrology | is slowly being | g diverted | d through st | ormwater infr | astructure and | are present. The site is I storm facilities. The g eet flow from pervious | geomorphic p | osition of gradu | |
| | N - Use scient | - | | - | | • | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| ree Stratum (p | olot sizo: |) | % cover | Species? | Status | Number of Deminent Cro | | | |
| <u>ree Straturri</u> (p 1 | |) | | | | Number of Dominant Spectra That are OBL, FACW, or I | | 1 | (A) |
| 2 | | | | | | That are ODE, I ACW, OT | AU. | • | (<) |
| - 3 | | | | | | Total Number of Dominan | t | | |
| 4 | | | | | | Species Across All Strata: | | 1 | (B) |
| | | | 0 | = Total Cover | | | | | |
| Sapling/Shrub Stra | atum (nlot size: | |) | | | Percent of Dominant Spec | ries | | |
| 1 | (plot 5)20. | | .) | | | That are OBL, FACW, or | | 100% | (A/B) |
| | | | | | | | | 100 /0 | (,,,,,,) |
| 3 | | | | | | Prevalence Index Wo | orksheet: | | |
| 4 | | | | | | Total % Cover of | Multip | oly by: | |
| 5 | | | | | | OBL Species | x | : 1 = 0 | |
| | | | 0 | = Total Cover | | FACW species | x | 2 = 0 | |
| | | | | | | FAC Species | | 3 = 0 | |
| | | IO) | | v | E 4 014/ | FACU Species | | 4 = 0 | |
| 1 Phalaris aru | | | <u>90</u> 10 | <u> </u> | FACW FAC | UPL Species | | 15 = <u>0</u> | (R) |
| 2 Dipsacus fu 3 | | | 10 | | | Column Totals | 0 (A) | 0 | (B) |
| 3 <u> </u> | | | | | | Prevalence Index =E | 2// - | #DIV/0! | |
| | | | | | | | | #014/0 | _ |
| 6 | | | | | | Hydrophytic Vegetati | on Indicators | : | |
| 7 | | | | | | | | Hydrophytic Veget | ation |
| | | | | | | | 2- Dominance Te | | |
| 8 | | | 100 | = Total Cover | | ; | 3-Prevalence Ind | ex is ≤ 3.0 ¹ | |
| 8 | | | | | | | 4-Morphological / | Adaptations ¹ (provi | de supporting |
| 8 | | | | | | (| data in Remarks | or on a separate sh | neet) |
| | um (plot size: | |) | | | | | | |
| Voody Vine Stratu | um (plot size: | |) | | | | 5- Wetland Non-\ | | 1 |
| Voody Vine Stratu | um (plot size: | |) | | | | Problematic Hydr | ophytic Vegetation | |
| 8 Noody Vine Stratu 1 2 | um (plot size: | |) 0 | = Total Cover | | Indicators of hydric soil and disturbed or problematic. | Problematic Hydr | ophytic Vegetation | |
| Noody Vine Stratu | | | | = Total Cover | | ¹ Indicators of hydric soil a | Problematic Hydr nd wetland hydro | ophytic Vegetation | |

| SOIL | | | PHS # | 729 | 6 | | | Sampling Point: 17 |
|--|---|--------------|---------------------|----------------|--------------|----------------------|---------------------|---|
| | iption: (Describe to | the depth | needed to docum | | | nfirm the abser | ce of indicators.) | |
| Depth | Matrix | | | | Features | Loc ² | - . | |
| (Inches) | Color (moist) | % | Color (moist) | % | Туре' | LOC | Texture | Remarks |
| 0-5 | 7.5YR 3/2 | 100 | | | | | Loam | 0 |
| 5-12 | 7.5YR 3/2 | 95 | 7.5YR 4/6 | 5 | C | <u> </u> | Sandy Loam | Coarse |
| | | | 1 | | | · | | |
| | | | | | | · | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | · | | |
| | centration, D=Deplet | | | | | | | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (App | icable to | all LRRs, unle | ss otherwis | e noted. | .) | Indica | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | S | andy Redo | ox (S5) | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | tripped Ma | | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | L | oamy Muc | ky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A | 4) | | L | oamy Gley | /ed Matrix (F2) | | Other (explain in Remarks) |
| | Depleted Below Dar | k Surface (A | 411) | D | epleted M | atrix (F3) | | |
| | Thick Dark Surface | A12) | | X R | edox Dark | Surface (F6) | | 3 |
| | Sandy Mucky Minera | al (S1) | | D | epleted Da | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | : (S4) | | R | edox Depr | ressions (F8) | | problematic. |
| Restrictive | Layer (if present) |): | | | | | | |
| Type: | | | | | | | | |
| Depth (inches | s): | | | | | | Hydric Soil Pres | sent? Yes X No |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | | | | | | | | |
| wetland Hy | drology Indicato | rs: | | | | | | |
| Primary Indi | cators (minimum | of one req | uired; check all | that apply) | | | | Secondary Indicators (2 or more required) |
| | Surface Water (A1) | | | | | ed Leaves (B9) | (Except MLRA | Water stained Leaves (B9) |
| | High Water Table (A | 2) | | 1, | , 2, 4A, an | a 4B) | | (MLRA1, 2, 4A, and 4B) |
| | Saturation (A3) | | | | alt Crust (I | , | | Drainage Patterns (B10) |
| | Water Marks (B1) | | | | | ertebrates (B13) | | Dry-Season Water Table (C2) |
| | Sediment Deposits (| B2) | | | | Sulfide Odor (C1) | | Saturation Visible on Aerial Imagery (C9) |
| | Drift Deposits (B3) | | | | | • | g Living Roots (C3) | X Geomorphic Position (D2) |
| | Algal Mat or Crust (E | 54) | | | | f Reduced Iron (| , | Shallow Aquitard (D3) |
| | Iron Deposits (B5) | | | | | Reduction in Pleased | . , | X Fac-Neutral Test (D5) |
| | Surface Soil Cracks | | aom ((DZ) | | | Stressed Plants | (DT) (LKK A) | Raised Ant Mounds (D6) (LRR A) |
| | Inundation Visible or Sparsely Vegetated | | | 0 | iner (Expl | ain in Remarks) | | Frost-Heave Hummocks (D7) |
| in and the second s | | | | | | | 1 | |
| Field Obser | | | | | | | | |
| Surface Water | | | No <u>X</u> | Depth (ii | - | | | |
| Water Table P | | | No <u>X</u> | Depth (ii | - | >12 | Wetland Hyd | rology Present? |
| Saturation Pre (includes capillar | | | No <u>X</u> | Depth (ii | nches): | >12 | | Yes X No |
| Describe Reco | orded Data (stream g | auge, moni | toring well, aerial | photos, previo | us inspecti | ions), if available | 2 | |
| | | | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | WETLAND | DETER | MINATIO | | RM - Weste | rn Mountains, Vall | levs. and Coa | PHS # st Region | 7296 |
|---------------------|--------------------|-----------------|--------------------|--------------------|------------------|---|---|---------------------------------|----------------|
| Project/Site: | Sherwood | | | City/County: | | ood/Washington | Sampling Date | - | 6/2021 |
| Applicant/Owner: | OWRA Sh | erwood, L | LC | | | State: | OR | Sampling Point: | 18 |
| Investigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township 2Sc | uth, Range 1W | est |
| Landform (hillslope | e, terrace, etc.:) | | Slope | | Local relief (co | ncave, convex, none): | None | Slope (%): | 2 |
| Subregion (LRR): | | LRR A | - | Lat: | 45.36 | 54 Long: | -122.8325 | Datum: | WGS84 |
| Soil Map Unit Nam | | | Aloha | – a silt loam | | NWI Cla | ssification: | None | |
| Are climatic/hydrol | | on the site typ | pical for this tim | ne of year? | Yes | No | | olain in Remarks) | |
| Are vegetation | Soil | or Hyd | rology X | significantly dist | urbed? | Are "Normal Circumstanc | es" present? (Y/N) | Ŷ | |
| Are vegetation | Soil | | | | | , explain any answers in Rei | • • • • | | |
| _ | | _ | | _ | | | | | |
| SUMMARY O | F FINDINGS | - Attach | n site map | showing san | npling point | locations, transects | , important fea | tures, etc. | |
| Hydrophytic Veget | tation Present? | Yes | X No | | Is Sampled Ar | ea within | | | |
| Hydric Soil Presen | nt? | Yes | No | Χ | a Wetlar | | | No X | |
| Wetland Hydrolog | y Present? | Yes | No | X | | | | | |
| | - | | | | | we make sure to evalu | • | | |
| | | | | | | are present. The site is I storm facilities. The g | | | |
| | - | - | - | | | eet flow from pervious | | - | upialiu slopes |
| VEGETATION | | - | | - | | - | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| Tree Stratum (p | olot size: | 30) | % cover | Species? | Status | Number of Dominant Spec | | | |
| 1 Populus ba | |) | 5 | x | FAC | That are OBL, FACW, or F | | 3 | (A) |
| 2 Alnus rubra | | | 1 | | FAC | ,,,,, | | - | () |
| 3 | | | | | | Total Number of Dominan | t | | |
| 4 | | | | | | Species Across All Strata: | | 5 | (B) |
| | | | 6 | = Total Cover | | | | | |
| Sapling/Shrub Stra | atum (plot size | e: 30 |) | | | Percent of Dominant Spec | cies | | |
| 1 Rubus arm | eniacus | | 5 | х | FAC | That are OBL, FACW, or | FAC: | 60% | (A/B) |
| 2 Cytisus sco | oparius | | 5 | Х | (UPL) | | | | |
| 3 | | | | | | Prevalence Index Wo | orksheet: | | |
| 4 | | | | | | Total % Cover of | Multiply I | oy: | |
| 5 | | | | | | OBL Species | x 1 = | | |
| | | | 10 | = Total Cover | | FACW species FAC Species | x 2 = x 3 = | | |
| Herb Stratum (p | olot size: | 10) | | | | FACU Species | x 4 = | | |
| 1 Anthoxanth | hum odoratum | 1 | 30 | х | FACU | UPL Species | x 5 = | 0 | |
| 2 Agrostis ca | pillaris | | 30 | Х | FAC | Column Totals | 0 (A) | 0 | (B) |
| 3 Hypericum | perforatum | | 20 | | FACU | | | | |
| 4 Madia glom | nerata | | 10 | | FACU | Prevalence Index =E | 3/A = | #DIV/0! | |
| | mum vulgare | | 10 | | FACU | | | | |
| 6 Daucus car | | | 10 | | FACU | Hydrophytic Vegetati | | | |
| 7 Plantago la | nceolata | | 5 | | FACU | | 1- Rapid Test for Hy | | n |
| 8 | | | 115 | = Total Cover | | | 2- Dominance Test i 3-Prevalence Index i | | |
| | | | | | | | 4-Morphological Ada | | supporting |
| Woody Vine Stratu | um (plot size: | |) | | | | data in Remarks or c | n a separate sheel | .) |
| 1 | | | | | | | 5- Wetland Non-Vas | cular Plants ¹ | |
| 2 | | | | | | F | Problematic Hydroph | ytic Vegetation ¹ (E | xplain) |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil an | nd wetland hydrology | must be present, | unless |
| | | | | | | disturbed or problematic. Hydrophytic | | | |
| | | | | | | | | | |
| % Bare Ground in | Herb Stratum | 0 |) | | | Vegetation | Yes X | No | |

| SOIL | | | PHS # | 729 | 6 | | | Sampling Poir | ıt: 18 | |
|---------------------------------------|---|------------|---|--|-----------------------------------|---|---------------------|---|--------------------------------------|--|
| Profile Descrip | ption: (Describe to Matrix | the depth | needed to docume | | ator or co Features | nfirm the absen | ce of indicators.) | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Rem | arks | |
| 0-2 | 10YR 3/6 | 100 | · · · · · · · · · · · · · · · · · · · | | | | Loam | | | |
| 2-6 | 10YR 3/6 | 99 | 10YR 4/2 | 1 | D | M | Loam | Fine | | |
| 6-16 | 10YR 4/3 | 95 | 5YR 3/4 | 5 | С | M | Loamy Sand | Fine | | |
| | | | | | | | | | | |
| , | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Conc | centration, D=Depleti | on. RM=R | educed Matrix. CS= | Covered or C | Coated Sar | nd Grains. | | ² Location: PL=Pore Lining | . M=Matrix. | |
| | Indicators: (Appl | | | | | | Indic | ators for Problematic I | | |
| • | Histosol (A1) | | · | | andy Redo | | | 2 cm Muck (| - | |
| | Histic Epipedon (A2) | | | | tripped Ma | | | | Material (TF2) | |
| | Black Histic (A3) | | | | | ky Mineral (F1) (| except MLRA 1) | | v Dark Surface (TF12) | |
| | Hydrogen Sulfide (A4 | 1) | | | | ved Matrix (F2) | , | Other (explain in Remarks) | | |
| | Depleted Below Dark | | 11) | | epleted M | | | | in in Kontanto) | |
| | Thick Dark Surface (| | , , , , , , , , , , , , , , , , , , , | | - | Surface (F6) | | | | |
| | Sandy Mucky Minera | | | | | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | | |
| | Sandy Gleyed Matrix | | | | - | ressions (F8) | | | | |
| Restrictive L | _ayer (if present) | : | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (inches |): | | | | | | Hydric Soil Pres | sent? Yes | No X | |
| Remarks: | · | | | | | | , | · · · · · | | |
| HYDROLO Wetland Hyd | GY drology Indicator | s: | | | | | | | | |
| Primary Indic | ators (minimum c | of one req | uired; check all tl | hat apply) | | | | Secondary Indicators | (2 or more required) | |
| | Surface Water (A1) High Water Table (A | 2) | | | /ater stain , 2, 4A, an | ed Leaves (B9) (d 4B) | Except MLRA | | ed Leaves (B9) 4A, and 4B) | |
| | Saturation (A3) | -) | | s | alt Crust (I | B11) | | Drainage Pa | tterns (B10) | |
| | Water Marks (B1) | | | Salt Crust (B11) Aquatic Invertebrates (B13) | | | | Dry-Season Water Table (C2) | | |
| | Sediment Deposits (E | 32) | | | | ulfide Odor (C1) | | | isible on Aerial Imagery (C | |
| | Drift Deposits (B3) | , | | Oxidized Rhizospheres along | | | a Livina Roots (C3) | · | Position (D2) | |
| | Algal Mat or Crust (B | 4) | | | | f Reduced Iron (0 | | Shallow Aqu | . , | |
| | ron Deposits (B5) | , | | | | Reduction in Plo | , | Fac-Neutral | | |
| | Surface Soil Cracks (| (B6) | | Stunted or Stressed Plants (D1) | | | D1) (LRR A) | | Mounds (D6) (LRR A) | |
| ı | nundation Visible on | Aerial Ima | gery (B7) | 0 | ther (Expl | ain in Remarks) | | Frost-Heave | Hummocks (D7) | |
| | Sparsely Vegetated (| Concave S | urface (B8) | | | | | | | |
| Field Observ | vations: | | | | | | | | | |
| Surface Water | Present? Yes | | No X | Depth (ir | nches): | | | | | |
| Water Table Pi | resent? Yes | | No X | Depth (inches): >16 | | | Wetland Hyd | | | |
| Saturation Pres (includes capillar | | | No <u>X</u> | Depth (ir | nches): | >16 | | Yes | <u>No X</u> | |
| Describe Reco | rded Data (stream ga | auge, moni | toring well, aerial pl | hotos, previou | us inspecti | ions), if available | : | | | |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| omano. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | WETLAND | DETER | | | RM - Weste | rn Mountains, Val | leys, and Coa | PHS # _ st Region | 7296 |
|--|-----------------------|---------------|--|--------------------|-------------------|---|---|----------------------|-----------|
| Project/Site: Sherwood Industrial Park | | | City/County: | | ood/Washington | Sampling Date | • | 10/6/2021 | |
| Applicant/Owner: | OWRA She | erwood, L | LC | | | State: | OR | Sampling Point: | 19 |
| nvestigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township 2So | uth, Range 1We | st |
| andform (hillslope | e, terrace, etc.:) | | Slope | - | Local relief (cor | ncave, convex, none): | Concave | Slope (%): | 2 |
| Subregion (LRR): | | LRR A | | Lat: | 45.366 | 54 Long: | -122.8325 | Datum: | WGS84 |
| Soil Map Unit Nam | ne: | | Aloha | silt loam | | NWI Cla | ssification: | None | |
| Are climatic/hydrol | logic conditions or | n the site ty | pical for this tim | e of year? | Yes | No | X (if no, ex | plain in Remarks) | |
| Are vegetation | Soil | or Hyd | Irology X | significantly dist | urbed? | Are "Normal Circumstand | es" present? (Y/N) | Y | |
| re vegetation | Soil | or Hyd | Irology | naturally problem | matic? If needed | , explain any answers in Re | marks.) | | |
| | | _ | | - | | | | | |
| SUMMARY O | F FINDINGS | – Attack | h site map | showing san | npling point | locations, transects | , important fea | tures, etc. | |
| lydrophytic Vegeta | ation Present? | Yes | X No | | Is Sampled Ar | ea within | | | |
| lydric Soil Presen | nt? | Yes | X No | | a Wetlar | | <u>x</u> | No | |
| Vetland Hydrology | y Present? | Yes | X No | | | | | | |
| | • | | | | | we make sure to evalu | • | | |
| | | | | • | • | are present. The site is I storm facilities. The g | • | • | |
| | - | - | - | | | eet flow from pervious | | - | |
| /EGETATION | I - Use scien | tific nam | nes of plant | s. | | - | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wor | ksheet: | | |
| ree Stratum (p | olot size. |) | % cover | Species? | Status | Number of Dominant Spe | | | |
| 1 | | / | | | | That are OBL, FACW, or | | 1 (| A) |
| 2 | | | | | | | | ` | |
| 3 | | | | | | Total Number of Dominan | t | | |
| 4 | | | | | | Species Across All Strata: | | 1 (| (B) |
| | | | 0 | = Total Cover | | | | | |
| Sapling/Shrub Stra | atum (plot size | : |) | | | Percent of Dominant Spec | cies | | |
| 1 | u | | - ' | | | That are OBL, FACW, or | | 100% | A/B) |
| 2 | | | | | | | | | |
| 3 | | | | | | Prevalence Index Wo | orksheet: | | |
| 4 | | | | | | Total % Cover of | Multiply I | by: | |
| 5 | | | | | | OBL Species | x 1 = | = 0 | |
| | | | 0 | = Total Cover | | FACW species | x 2 = | | |
| lerb Stratum (p | olot size: | 10) | | | | FAC Species | x 3 = x 4 = | | |
| 1 <i>Phalaris aru</i> | | , , | 100 | х | FACW | FACU Species | x 4 - x 5 = | | |
| 2 Dipsacus fu | | | 5 | | FAC | Column Totals | 0 (A) | | B) |
| 。 | | | | | | - | () | | , |
| 4 | | | | | | Prevalence Index = | 3/A = | #DIV/0! | |
| 5 | | | | | | | | | |
| 6 | | | | | | Hydrophytic Vegetati | on Indicators: | | |
| 7 | | | | | | | 1- Rapid Test for Hy | drophytic Vegetation | |
| 8 | | | | | | | 2- Dominance Test i | | |
| | | | 105 | = Total Cover | | | 3-Prevalence Index i 4-Morphological Ada | | upporting |
| Voody Vine Stratu | um (plot size: | |) | | | | data in Remarks or c | | |
| 1 | <u>um</u> (pier 6/20. | | | | | | 5- Wetland Non-Vas | | |
| • | | | | | | | Problematic Hydroph | | plain) |
| 2 | | | | | | ¹ Indicators of hydric soil a | | | |
| 2 | | | 0 | = Total Cover | | | | | |
| 2 | | | 0 | = I otal Cover | | disturbed or problematic. Hydrophytic | | | |
| 2 % Bare Ground in | Herb Stratum | (| <u> 0 </u> | = Total Cover | | disturbed or problematic. | Yes X | No | |

| Profile Descrip | tion: (Describe to th | ha danth · | | nt the indi | icator or com | firm the above | ce of indicators) | | | |
|--|---|---|--|-------------------------|---|--|--|---|--|--|
| Depth | Matrix | ie depth r | leeded to docume | | x Features | inni the abser | ice of indicators.) | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-7 | 7.5YR 2.5/2 | 93 | 7.5YR 4/6 | 5 | С | М | Sandy Loam | Fine | | |
| 0-7 | | | 7.5YR 4/6 | 2 | С | PL | Sandy Loam | Fine | | |
| 7-16 | 7.5YR 3/2 | 90 | 7.5YR 3/4 | 10 | с | М | Loamy Sand | Coarse | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | · | | | | | | | | | |
| | · • | | | | · | | | | | |
| | | | | | | | | | | |
| <u> </u> | | | | | | | | | | |
| Type: C=Conce | entration, D=Depletio | n, RM=Re | duced Matrix, CS=0 | Covered or | Coated Sand | d Grains. | | ² Location: PL=Pore Lining, M=Matrix. | | |
| lydric Soil lı | ndicators: (Applie | cable to | all LRRs, unless | s otherwi | ise noted.) | | Indic | ators for Problematic Hydric Soils ³ : | | |
| н | listosol (A1) | | | | Sandy Redox | (S5) | | 2 cm Muck (A10) | | |
| н | listic Epipedon (A2) | | | | Stripped Mat | rix (S6) | | Red Parent Material (TF2) | | |
| B | lack Histic (A3) | | | | Loamy Muck | y Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) | | |
| н | lydrogen Sulfide (A4) |) | | | Loamy Gleye | d Matrix (F2) | | Other (explain in Remarks) | | |
| | epleted Below Dark | Surface (A | A11) | | Depleted Mat | trix (F3) | | | | |
| | · hick Dark Surface (A | - | | | Redox Dark S | | | | | |
| | andy Mucky Mineral | | | | | rk Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland | | |
| | andy Gleyed Matrix (| | | | Redox Depre | | | hydrology must be present, unless disturbed or problematic. | | |
| epth (inches) | | | | | | | Hydric Soil Pres | sent? Yes <u>X</u> No | | |
| emarks: | | | | | | | Hydric Soil Pres | sent? Yes <u>X</u> No | | |
| Pepth (inches) emarks: IYDROLO(Vetland Hyd | GY rology Indicators | | | | - | | Hydric Soil Pres | | | |
| eepth (inches) emarks: IYDROLO(Vetland Hyd | GY SY | | Jired; check all th | | | | | | | |
| epth (inches) emarks: IYDROLO(/etland Hyd rimary Indic. S | GY rology Indicators ators (minimum of uurface Water (A1) | f one requ | uired; check all th | | Water staine | | Hydric Soil Pres | Secondary Indicators (2 or more required Water stained Leaves (B9) | | |
| epth (inches) emarks: YDROLOC /etland Hyd rimary Indica S H | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 | f one requ | uired; check all th | | Water staine 1, 2, 4A, and | 4B) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) | | |
| epth (inches) emarks: /YDROLOC /etland Hyd rimary Indic: S HS | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) | f one requ | uired; check all th | | Water staine 1, 2, 4A, and Salt Crust (B | 4 B) 11) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) | | |
| epth (inches) emarks: YDROLO(/etland Hyd rimary Indica s s | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) | f one requ) | uired; check all th | | Water stainer 1, 2, 4A, and Salt Crust (B Aquatic Inver | 4B) 11) tebrates (B13) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) | | |
| epth (inches) emarks: IYDROLO(/etland Hyd rimary Indica s s | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) | f one requ) | uired; check all th | | Water stainer 1, 2, 4A, and Salt Crust (B Aquatic Inver | 4 B) 11) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) | | |
| IYDROLOG Vetland Hyd rimary Indica S S S S S S S S S S S S S S S S S S S | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) rediment Deposits (B3) | f one requ) 2) | uired; check all th | | Water stainer 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhiz | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon | (Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) | | |
| IYDROLOC Vetland Hyd Vetland Hyd Irimary Indica S H S V S C A | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) ediment Deposits (B urift Deposits (B3) lgal Mat or Crust (B4 | f one requ) 2) | uired; check all th | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I | 4B) 11) Ifide Odor (C1) zospheres alon Reduced Iron (| (Except MLRA g Living Roots (C3) C4) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) | | |
| Pepth (inches) Perimary Indic: Primary Indic: S Primary I | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) rediment Deposits (B3) | f one requ) 2) | uired; check all th | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (Reduction in Pla | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) | | |
| Pepth (inches) Permarks: Primary Indica Primary Indica S S S S S S S S S S S S S S S S S S S | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (E | f one requ) 2) 1) 36) | | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | |
| Pepth (inches) emarks: IYDROLOG /etland Hyd rimary Indic: S S S S S S S S S S S S S S S S S S S | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) daturation (A3) vater Marks (B1) ediment Deposits (B1) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B undation Visible on A | f one requ) 2) 4) 36) Aerial Imag | gery (B7) | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (Reduction in Pla | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) | | |
| epth (inches) emarks: PYDROLOG /etland Hyd rimary Indic: S S S S S S S S S S S S S S S S S S S | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (E | f one requ) 2) 4) 36) Aerial Imag | gery (B7) | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | |
| Pepth (inches) emarks: IYDROLO(Vetland Hyd 'rimary Indica 'rimary Indica S S S S S S S S S S S S S S S S S S S | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) Vater Marks (B3) Vater Marks (B3) Vater Marks (B5) Vater Marks (| f one requ) 2) 4) 36) Aerial Imag | gery (B7) | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | |
| Pepth (inches) emarks: IYDROLOG Vetland Hyd Primary Indica S S S S S S S S S S S S S S S S S S S | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B5) | f one requ) 2) 4) 36) Aerial Imag | gery (B7) | | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | |
| Pepth (inches) Permarks: | GY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) ediment Deposits (B3) lgal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (E undation Visible on A parsely Vegetated C rations: Present? Yes | f one requ) 2) 4) 36) Aerial Imag | gery (B7) ırface (B8) | X Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | |
| A Comparison of the second sec | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) Vater Marks (B1) Vater Marks (B1) Vater Marks (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (B5) ur | f one requ) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) No <u>X</u> | X Depth Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon Reduced Iron (Reduction in Pla tressed Plants in in Remarks) | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | |
| Primary Indica s H S V S C C C C C C C C C C C S C C C C C | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) vater Marks (B2) vater Marks (B2 | f one requ) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | X Depth Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): | 4B) 11) tebrates (B13) lfide Odor (C1) zospheres alor Reduced Iron (Reduction in Ple tressed Plants in in Remarks) >16 | (Except MLRA g Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | |
| APPENDEDCOC APPENDEDCOC APPENDEDCOC Vetland Hyd Primary Indica S Primary Indica S S S Comparison S S S S S S S S S S S S S | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) vater Marks (B1) urface Soil Cracks (B4) on Deposits (B5) urface Soil Cracks (B5) urface Soil Cr | f one requ) 2) 4) Aerial Imag oncave Su | gery (B7) urface (B8) No X No X No X | Depth Depth Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon Reduced Iron (Reduction in Pluteressed Plants of in in Remarks) >16 >16 >16 | (Except MLRA g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | |
| APPENDEDCOC APPENDEDCOC APPENDEDCOC Vetland Hyd Primary Indica S Primary Indica S S S Comparison S S S S S S S S S S S S S | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) rediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B5) urface S | f one requ) 2) 4) Aerial Imag oncave Su | gery (B7) urface (B8) No X No X No X | Depth Depth Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon Reduced Iron (Reduction in Pluteressed Plants of in in Remarks) >16 >16 >16 | (Except MLRA g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | |
| APPENDEDCOC APPENDEDCOC APPENDEDCOC Vetland Hyd Primary Indica S Primary Indica S S S Comparison S S S S S S S S S S S S S | BY rology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) rediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B5) urface S | f one requ) 2) 4) Aerial Imag oncave Su | gery (B7) urface (B8) No X No X No X | Depth Depth Depth | Water stained 1, 2, 4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Stunted or St Other (Explai (inches): (inches): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon Reduced Iron (Reduction in Pluteressed Plants of in in Remarks) >16 >16 >16 | (Except MLRA g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | |

| | WETLAND | DETER | MINATION | | RM - Weste | rn Mountains, Val | leys, and Coas | PHS # st Region | 7296 | |
|---------------------|-------------------------|-----------------|---------------------|--------------------|---------------------|--|---|---------------------|-----------------|--|
| Project/Site: | Sherwood I | ndustrial l | Park | City/County: She | | ood/Washington | Sampling Date: | 10/6 | 10/6/2021 | |
| Applicant/Owner: | ner: OWRA Sherwood, LLC | | | State: | OR | Sampling Point: | 20 | | | |
| nvestigator(s): | | СМ | | Section, To | wnship, Range: | Section 29 | D, Township 2Soເ | uth, Range 1We | est | |
| andform (hillslope | e, terrace, etc.:) | | Ditch | | Local relief (cor | ncave, convex, none): | Concave | Slope (%): | 3 | |
| Subregion (LRR): | _ | LRR A | | Lat: | 45.367 | '0 Long: | -122.8308 | Datum: | WGS84 | |
| oil Map Unit Nam | ie: | | Quata | ma loam | | NWI Cla | ssification: | None | | |
| re climatic/hydrolo | ogic conditions c | on the site typ | pical for this tim | e of year? | Yes | No | X (if no, exp | lain in Remarks) | | |
| Are vegetation | X Soil | or Hyd | rology X | significantly dist | urbed? | Are "Normal Circumstand | ces" present? (Y/N) | Y | | |
| re vegetation | Soil | or Hyd | rology | naturally proble | matic? If needed | , explain any answers in Re | marks.) | | | |
| | | _ | _ | _ | | | | | | |
| SUMMARY O | F FINDINGS | | n site map s | | npling point | locations, transects | , important feat | ures, etc. | | |
| lydrophytic Vegeta | | Yes | No | <u> </u> | Is Sampled Ar | ea within | | | | |
| Hydric Soil Present | t? | Yes | No | | a Wetlar | Id? Yes | | No X | | |
| Vetland Hydrology | / Present? | Yes | No | X | | | | | | |
| ower topograp | ohy, or in area | is where h | ydrophytic v | egetation and | l hydric soils a | we make sure to evalu are present. The site is I storm facilities. The g | surrounded by n | ew developme | nt. It is our B | |
| | - | - | - | | | eet flow from pervious | | - | | |
| /EGETATION | | | | | | | ~ | | | |
| | | | absolute % cover | Dominant | Indicator Status | Dominance Test wor | ksheet: | | | |
| ree Stratum (p | lot size: | 30) | | Species? | Status | Number of Dominant Spe | cies | | | |
| 1 Photinia sp | 1 | / | 20 | x | (UPL) | That are OBL, FACW, or | | 2 | (A) | |
| <u> </u> | | | | | | | | | | |
| 3 | | | | | | Total Number of Dominar | t | | | |
| 4 | | | | | | Species Across All Strata | : | 4 | (B) | |
| | | | 20 | = Total Cover | | | | | | |
| Sapling/Shrub Stra | atum (plot size | e: 30 |) | | | Percent of Dominant Spe | cies | | | |
| 1 Rubus arme | eniacus | | 100 | X | FAC | That are OBL, FACW, or | FAC: | 50% | (A/B) | |
| 2 | | | | | | | | | | |
| 3 | | | | | | Prevalence Index Wo | | | | |
| 4 5 | | · | | | | Total % Cover of | Multiply by | <u>/:</u> 0 | | |
| J | | · | 100 | = Total Cover | | OBL Species FACW species | x 1 = | 0 | | |
| | | | | | | FAC Species | x 3 = | 0 | | |
| lerb Stratum (p | lot size: | 10) | | | | FACU Species | x 4 = | 0 | | |
| 1 Daucus care | ota | | 5 | X | FACU | UPL Species | x 5 = | 0 | | |
| 2 Cirsium arv | ense | | 5 | X | FAC | Column Totals | 0 (A) | 0 | (B) | |
| 3 | | | | | | | | | | |
| 4 5 | | | | | | Prevalence Index = | B/A = | #DIV/0! | | |
| 6 | | | | | | Hydrophytic Vegetat | ion Indicators: | | | |
| 7 | | | | | | | 1- Rapid Test for Hyd | rophytic Vegetatior | ı | |
| 8 | | | | | | | 2- Dominance Test is | | | |
| | | | 10 | = Total Cover | | | 3-Prevalence Index is | | | |
| | | | | | | | 4-Morphological Adap | | | |
| Voody Vine Stratu | <u>ım</u> (plot size: | |) | | | | data in Remarks or or | • |) | |
| 1 | | · · | | · | | | 5- Wetland Non-Vasc Problematic Hydrophy | | (nlain) | |
| 2 | | | 0 | = Total Cover | | ¹ Indicators of hydric soil a | | | | |
| | | | 0 | | | disturbed or problematic. | na weitana nyarology | must be present, t | 11000 | |
| | | - | _ | | | Hydrophytic | X | | | |
| | | | | | | | VAC | No | X | |
| % Bare Ground in | Herb Stratum | 9 | 0 | | | Vegetation Present? | Yes | | <u> </u> | |

| SOIL | | | PHS # | 72 | 296 | _ | | Sampling Point: 20 | | |
|------------------------|--------------------------------|-------------|-------------------------|-------------|----------------------------|--------------------------|---------------------|---|--|--|
| Profile Descr Depth | iption: (Describe to Matrix | the depth | needed to docume | | icator or co x Features | onfirm the absen | ce of indicators.) | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-11 | 7.5YR 3/2 | 99 | 7.5YR 3/4 | 1 | <u> </u> | M | Loamy Sand | Fine | | |
| 11-16 | 10YR 3/3 | 94 | 7.5YR 3/4 | 5 | | M | Loamy Sand | Coarse | | |
| 11-16 | 1011(0/0 | | 10YR 2/1 | 1 | | M | Loamy Sand | Coarse | | |
| | | | 1011(2/1 | | | | | oouise | | |
| | | | | | · | | | | | |
| | | | | | · | | | | | |
| | | | | | · | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | centration, D=Deplet | | | | | | | ² Location: PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | Indicators: (Appl | icable to | all LRRs, unles | s otherw | ise noted | .) | Indic | ators for Problematic Hydric Soils ³ : | | |
| | Histosol (A1) | | | | Sandy Red | lox (S5) | | 2 cm Muck (A10) | | |
| | Histic Epipedon (A2) | | | | Stripped M | | | Red Parent Material (TF2) | | |
| | Black Histic (A3) | | | | Loamy Muo | cky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) | | |
| | Hydrogen Sulfide (A | 4) | | | Loamy Gle | yed Matrix (F2) | | Other (explain in Remarks) | | |
| | Depleted Below Dark | < Surface (| A11) | | Depleted N | latrix (F3) | | | | |
| | Thick Dark Surface (| A12) | | | Redox Dar | k Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetland | | |
| | Sandy Mucky Minera | al (S1) | | | Depleted D | ark Surface (F7) | | hydrology must be present, unless disturbed or | | |
| | Sandy Gleyed Matrix | : (S4) | | | Redox Dep | pressions (F8) | | problematic. | | |
| Restrictive | Layer (if present) |): | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (inche | s): | | | | _ | | Hydric Soil Pres | sent? Yes No X | | |
| Remarks: | | | | | _ | | - | | | |
| HYDROLC | ØGY | | | | | | | | | |
| Wetland Hy | drology Indicato | rs: | | | | | | | | |
| Primary Indi | cators (minimum o | of one red | quired; check all t | hat apply |) | | | Secondary Indicators (2 or more required) | | |
| | Surface Water (A1) | | | | | ned Leaves (B9) (| Except MLRA | Water stained Leaves (B9) | | |
| | High Water Table (A | 2) | | | 1, 2, 4A, a | nd 4B) | | (MLRA1, 2, 4A, and 4B) | | |
| | Saturation (A3) | | | | Salt Crust | (B11) | | Drainage Patterns (B10) | | |
| | Water Marks (B1) | | | | Aquatic Inv | rertebrates (B13) | | Dry-Season Water Table (C2) | | |
| | Sediment Deposits (| B2) | | | Hydrogen | Sulfide Odor (C1) | | Saturation Visible on Aerial Imagery (C9 | | |
| | Drift Deposits (B3) | | | | Oxidized R | hizospheres alon | g Living Roots (C3) | X Geomorphic Position (D2) | | |
| | Algal Mat or Crust (B | 34) | | | Presence of | of Reduced Iron (C | 24) | Shallow Aquitard (D3) | | |
| | Iron Deposits (B5) | | | | Recent Iron | n Reduction in Plo | wed Soils (C6) | Fac-Neutral Test (D5) | | |
| | Surface Soil Cracks | (B6) | | | Stunted or | Stressed Plants (| D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) | | |
| | Inundation Visible or | Aerial Ima | agery (B7) | | Other (Exp | lain in Remarks) | | Frost-Heave Hummocks (D7) | | |
| | Sparsely Vegetated | Concave S | Surface (B8) | | | | | | | |
| Field Obser | vations: | | | | | | | | | |
| Surface Wate | r Present? Yes | | No X | Depth | (inches): | | | | | |
| Water Table F | Present? Yes | | No X | Depth | (inches): | >16 | Wetland Hyd | Irology Present? | | |
| Saturation Pre | sent? Yes | | No X | Depth | Depth (inches): >16 | | | Yes No X | | |
| (includes capilla | ry fringe) | | | | | | | | | |
| Describe Reco | orded Data (stream g | auge, mon | itoring well, aerial pl | hotos, prev | ious inspec | tions), if available | : | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Appendix C

Study Area Photos





Photo A:

Looking southwest at sample points 8 and 9 and the east side of Wetland A.

Photo date: September 22, 2021

Photo B:

Looking south at past trunk sewer work along Rock Creek .

Photo date: August 25, 2021



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Photo C:

Looking east where a storm culvert outfalls toward Rock Creek.

Photo date: September 22, 2021

Photo D:

Looking southwest at sample point 3 with the storm detention pond in the background.

Photo date: September 22, 2021



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Photo E:

Looking north at Wetland A.

Photo date: August 25, 2021

Photo F:

Looking south at sample points 6 and 7.

Photo date: August 25, 2021



Project #7296 10/20/2021



Photo documentation Sherwood Industrial Park Phase 3 Development Site, Sherwood, Oregon

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070



Photo G:

Looking northeast at the wetland terrace adjacent to Rock Creek.

Photo date: August 25, 2021

Photo H:

Looking southeast at sample points 8 and 9 and the wetland ditch.

Photo date: August 25, 2021



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Photo I:

Looking northeast at sample point 10 in an upland ditch.

Photo date: August 25, 2021

Photo J:

Looking southwest at sample point 11.

Photo date: October 6, 2021



Project #7296 10/20/2021



Photo documentation Sherwood Industrial Park Phase 3 Development Site, Sherwood, Oregon

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070



Photo K:

Looking north at sample point 12 in a remnant ditch.

Photo date: October 6, 2021

Photo L:

Looking northwest at sample point 13 in a remnant ditch.

Photo date: October 6, 2021



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Photo M:

Looking south at sample point 14 in a low-lying upland area adjacent to an old stockpile.

Photo date: October 6, 2021

Photo N:

Looking northwest at sample point 15 and Wetland B in the background.

Photo date: October 6, 2021



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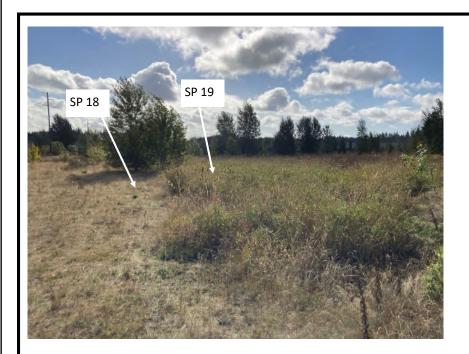


Photo O:

Looking southeast at Wetland B. Sample Points 18 and 19 are in the foreground.

Photo date: October 6, 2021

Photo P:

Looking northeast at an upland ditch in the western study area.

Photo date: October 6, 2021



Project #7296 10/20/2021



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

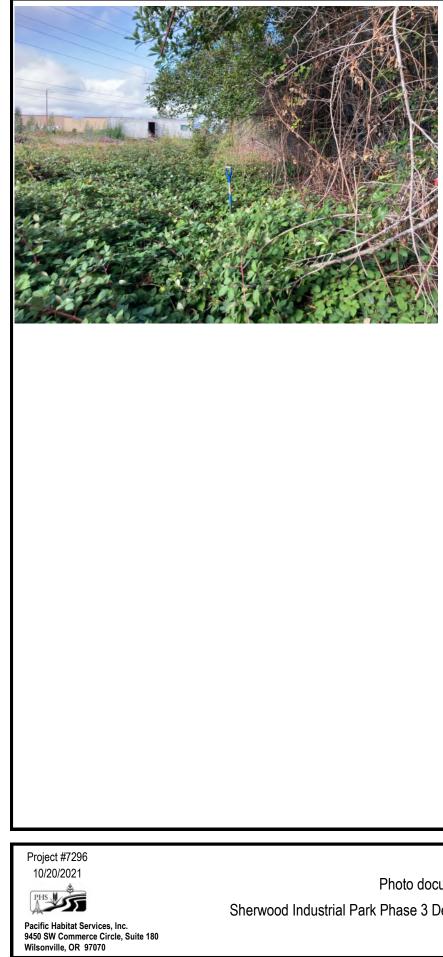


Photo Q:

Looking west at sample point 20 in an upland ditch.

Photo date: October 6, 2021

Photo documentation

Sherwood Industrial Park Phase 3 Development Site, Sherwood, Oregon